

# Manufacturers Record

## Exponent of America



\$6.50 per Year.  
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### A Century-Old Effort to Free Europe of Dependence Upon the South for Cotton.

More than seventy years ago Charles Dickens, after enumerating many striking facts in regard to England's cotton trade, said:

"Let any great social or physical convulsion visit the United States and England would feel the shock from Land's End to John O'Groat's. The lives of nearly two millions of our countrymen are dependent upon the cotton crops of America. Their destiny may be said, without any kind of hyperbole, to hang upon a thread."

Dickens was arguing at that time, as were many other English writers, statesmen and manufacturers, about the supreme importance to England of its cotton industry.

In 1858 Lord Palmerston, in an address in Parliament, said:

"I venture to say that you will find on the West coast of Africa a most valuable supply of cotton, so essential to the manufacturers of this country."

At other times in Parliament, in the reports of the British Board of Trade, and in the discussions of cotton manufacturers in Lancashire, emphasis was constantly laid upon the need of growing cotton in other parts of the world to lessen the dependence of Great Britain upon Southern raised cotton. In those early days, even a century ago, much stress was placed upon the importance to England of low prices for cotton. A report to the British Board of Trade urged that English manufacturers should do all in their power to hold down the price of cotton, and that report claimed that this would be the way in which to force the South to raise a larger crop, since the planters would seek by a larger yield to secure more money than they could get from a small yield at high prices.

These old discussions of 75 to 100 years ago, which have continued down to the present hour, are of much significance to the South, and, indeed, to the whole cotton world. Without knowledge of them no one can properly understand the present agitation in Europe for cotton production in other countries and the continued methods adopted to break down the price of American cotton.

On August 16, 1921, Mr. Arno S. Pearse, General Secretary of the International Federation of Master Cotton Spinners and Manufacturers Associations of Europe, in an address in Rio de Janeiro, made after the visit of the International Cotton Mission to that country, referred to cotton growing in the United States and said:

"The high wages ruling there make the growing of cotton unremunerative, and we were told on the authority of the president of the Cotton Farmers Union that the AMERICAN COTTON FARMER WOULD NO MORE CONTINUE TO ALLOW HIS WIFE AND CHILDREN TO WORK IN THE FIELDS. With such fantastic ideas it cannot be expected that there will be an increase in the cotton acreage of the United States of America."

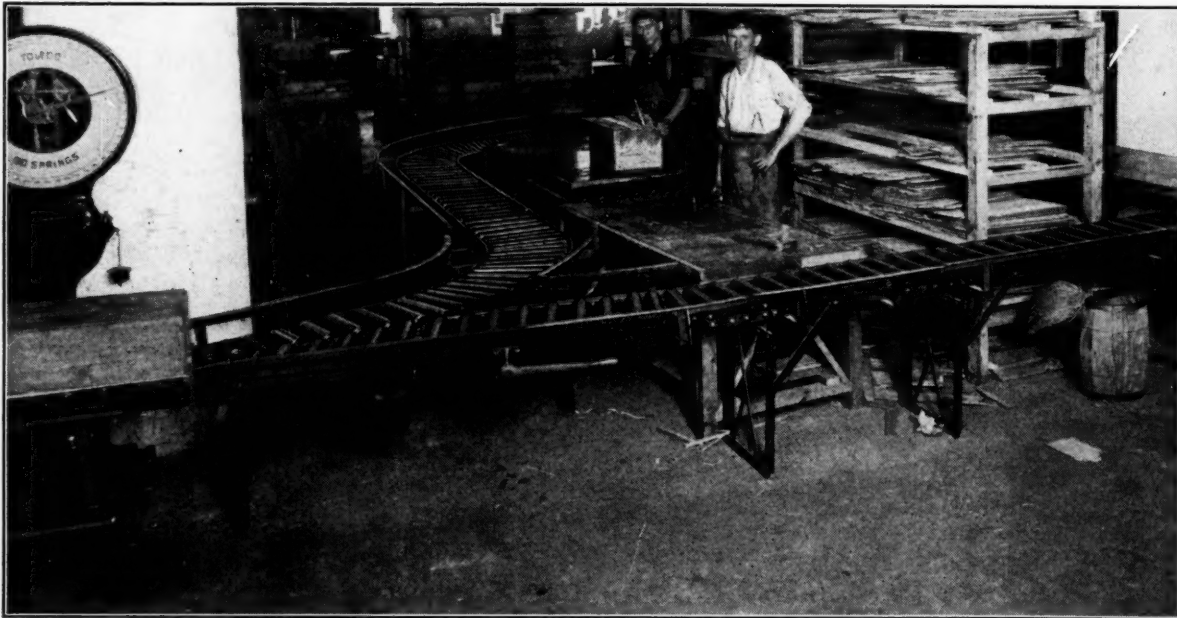
This official representative of European cotton manufacturers regarded the desire of American cotton growers to keep their wives and children out of the cotton fields as "fantastic ideas."

In the Blue Book of Southern Progress, which will be issued within a few weeks by the Manufacturers Record, the story of these efforts to break down the price of cotton and to increase cotton production in other parts of the world will be told briefly, but with sufficient comprehensiveness to make it invaluable to every man and woman in America seeking to know the facts. This history, bearing on the cotton trade, is however only one of the hundreds of equally interesting things relating to the welfare of the South and of the country at large to be found in the Blue Book of Southern Progress.

We unhesitatingly commend that publication to every reader in the South especially, but also to our readers elsewhere, and we ask for advance subscriptions of from one copy to five thousand copies. A great many railroads and business houses have already ordered all the way from 250 to 5000 copies each, for distribution in the interest of Southern prosperity. The prices are as follows:

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# Manufacturers Record

Exponent of America

APRIL 19, 1923



Volume LXXXIII

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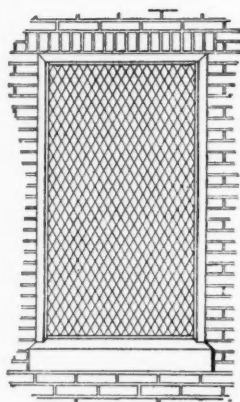
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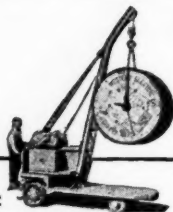
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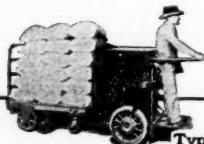
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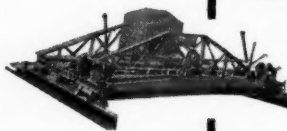
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# Manufacturers Record

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Trade-Name Registered in the U. S. Patent Office

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## MARCH EXPORTS INCREASE.

EXPORTS of merchandise for March amounted to \$350,000,000, reports the Department of Commerce. Compared with March one year ago, this is an increase of about \$20,000,000, and 86 per cent more than the \$187,499,000 worth of merchandise exported in March, 1914.

Since October, the value of exports each month has shown an increase over the export values of the corresponding months of 1921-1922. In fact, during the last six months the aggregate value of exports amounted to \$2,087,691,319. Compared with the aggregate value of exports, amounting to \$1,793,069,534 for the corresponding six months of 1921-1922, the increase is \$294,621,785. The total value of exports for the corresponding six months of the pre-war years 1913-1914 amounted to \$1,316,082,116. Therefore, the United States in the last six months shipped abroad more than \$771,600,000 worth of merchandise than we exported during the same period of 1913-1914.

## A FRANK ADMISSION.

A NEW YORK lawyer writes the MANUFACTURERS RECORD as follows as to the responsibility for the League of Nations: "Lord Robert Cecil, who ought to know is quoted by New York Evening Post as saying:

"I believe that when the history of the war comes to be impartially written, the two greatest results will be the establishment of the national Jewish home and the creation of the League of Nations. The two are not really disconnected. They represent the two great ideas for which we fought and by which we conquered—the ideas of nationalism and internationalism."—New York Evening Post, March 30, 1923, Night Edition, p. 3.

"This is the frankest admission from any of the Rt. Hon. David Lloyd George's War Cabinet as to why, alas, the talking men at Versailles talked away at the peace table both peace and victory.

"If the international financiers can bring it about they plan to appeal from the voters of 1920 to the voters of 1924."

## HIGH FREIGHT RATES CAN ONLY BE MAINTAINED BY HIGH PRICES FOR FARM AND FACTORY PRODUCTS.

MR. M. C. BYERS, president of the Western Maryland Railroad, in commenting on the determination of the leading railroads to spend an aggregate—including what has been expended—of \$1,500,000,000 for extensions and improvements, took the ground in a statement issued in Baltimore that railroads must have higher freight rates or lower wages in order to justify such an extensive campaign of improvement.

Mr. Byers is wrong. The railroads will not secure higher freight rates, nor will they secure any material reduction in wages. Both have been tried, and both plans have utterly failed. There is not the slightest possibility that railroad wages will be materially reduced even if the iniquitous Adamson bill, which to a large extent, takes from railroad managers the control of their labor, should ever be repealed. There is not the slightest possibility of an advance in rates. If that were attempted it would raise such a storm in this country as to do the railroads more harm than they could ever overcome. Existing rates can only be justified and maintained by the higher prices now prevailing of farm and manufactured products. If there had not been an advance in prices during the last twelve months lower freight rates would have been forced upon the roads, even if it sent every one of them into the hands of receivers.

The country had reached a point, under the low prices prevailing after the business chaos of 1921, where it would have viewed with a degree of unconcern little suspected by the railroad people, the receivership of all railroads. There was a desperation on the part of millions of farmers and of others who cared not whether railroads financially lived or died. That spirit would have been destructive, revolutionary in its outburst of fury, if it had continued. Rising prices have saved the day. Coal, and iron and steel, and cotton, and lumber at present prices can pay a freight rate which would have been impossible under former conditions.

The MANUFACTURERS RECORD repeatedly said during the period of extreme depression that railroad owners would be forced by economic conditions to take their choice—to encourage higher prices in order to justify existing freight rates, or to lower their rates to meet the lower prices of all products regardless of whether they paid running expenses or not. Fortunately, the higher prices now prevailing have brought about an entirely different situation. These higher prices justify higher freight rates than formerly existed, but no higher than present rates.

It has been pretty well proven that railroad workers will not take lower wages. That question has been threshed out and the railroads did not win. There will never be a time in all probability when they will have a better chance to win than they had when they tried it last year. We are on a permanently higher scale of wages. We can no more go back to the low wages prevailing prior to the European

War than we can go back to all of the conditions under which the world lived at that time. Any forcible attempt to do so would mean a revolution, and he who does not realize this has not studied human history and does not know the real feeling of a very large proportion of our population.

Mr. Byers and all his railroad associates may, therefore, put entirely from their mind any thought that rates can be advanced or wages reduced. They will have to meet all of their problems without either one of these things which Mr. Byers thinks essential. The remedy is entirely different. It is to spend enough money to so increase the railroad plant that it can do business at a lower cost, carrying a larger volume of freight and making money on it.

Some years ago after the Illinois Central had spent a hundred million dollars straightening curves and lowering grades, one of its officials, who had been responsible for much of this work, said to the writer: "Our road can carry freight and earn a 7 per cent dividend and lay up a surplus at a rate which would not pay the actual running expenses of most of the railroads of the Central South." At that time he was investigating the roads of the Central South for one of the big trust companies of New York. Since then some of these roads have made marked improvement in their roadbed and rolling stock, but they have not attained unto perfection. The Clinchfield road, the Virginian and other roads of their class, built to some extent without regard to cost in order to have such grades as would enable them to carry freight at the lowest possible cost, must be the basis on which all the railroads of the country will have to be reconstructed and operated. Many a manufacturing plant has found that it must either go out of business as a failure, or else so enlarge its operations as to reduce the unit of cost. Concerns which were wellnigh bankrupt have by pouring into enlargement new money to save the old, saved themselves.

The railroads must follow that plan and existing security holders must recognize that money for such betterments must be provided without calling upon the public to pay higher freight rates or demanding lower wages for the workmen.

Every railroad official and security holder, therefore, has a vital interest in the maintenance of the higher prices prevailing as compared with the low and unprofitable prices which in 1921 wellnigh bankrupted the whole country.

## LET THE OPEN SHOP GET YOUR ORDERS.

**T**HE proponents of the closed shop are running true to form at Miami, Fla. The Greater Miami Employers' Association shows in a recent bulletin how foolish it is for their local business houses to give work to closed shops when the employees of the only two open shop printing establishments in the city are constantly subjected to intimidation and threats from professional trouble-makers. If you believe the closed shop is wrong in principle and un-American in practice, it is the height of inconsistency to give your printing contracts to such a shop. Says the report:

"Inconsistency is not a virtue, it is a weakness. You, no doubt, are firmly convinced that the closed shop is a menace; that it would eventually destroy the moral fibre of our nation because it breeds radicalism, violence, contempt of the rights of men and of the law; it means industrial death to any community because it lessens production, destroys initiative and ambition. It is a symbol of waste and extravagance.

"Perhaps through negligence, or oversight, you have permitted some of your business to go to closed shops. But every time you spend a dollar with a closed shop you are helping to finance the campaign of those who would force this un-American program down our throats.

"If you do not want to be a party to this instruct your buyer of printing to place all printing orders with the Hefty Press or the Lloyd Printing Company.

"These concerns are well equipped to handle your business. They are fighting your fight. Back them up."

## EUROPE IS GETTING ON ITS FEET.

**I**T is extremely gratifying to receive the encouraging report on commercial and industrial conditions in Europe which has just been made by Julius H. Barnes, president of the Chamber of Commerce of the United States, upon his return from the continent where he recently attended the meeting of the International Chamber at Rome. Mr. Barnes states that in all Europe there is evidence of reviving industrial and commercial life and that with any encouragement the facilities of production would expand into an era of intense activity. This testimony is very helpful coming from a man who is as well informed as Mr. Barnes and who by virtue of his experience is better qualified than some others to form a judgment and express an opinion on what his own eyes have revealed to him of conditions in Europe. There has never been any good excuse for the pessimistic utterances given to the press from some American travelers returning from the continent.

The MANUFACTURERS RECORD has repeatedly pointed out that it was only a question of time until this European revival would become increasingly apparent and that the essential element in the improvement was the willingness to work hard and develop to the utmost the resources and opportunities which there remained.

According to Mr. Barnes, Italy has definitely repudiated her tendency toward state operations on a socialistic basis. In England, he said, industries are now expanding, although dependent, of course, upon trade conditions over the world and the recovery of other countries. He pointed out that Austria is no longer the international beggar nation and stated that the improvement whenever found was most marked in those sections where the greatest incentive existed to private enterprise and individual initiative. The Near East, Africa, and the Orient all show signs of progress. Expanding employment and increasing production are enlarging the margin of savings in almost every country.

Mr. Barnes is to be congratulated for his clear understanding of the nature of the problems which confront Europe and this country is fortunate in his intelligent and optimistic expression on the situation as he found it.

## TO BE APPRECIATED IT MUST BE READ.

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Editor Manufacturers Record:

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Wishing you the greatest success, I am, etc.

W. S. DAVIES.

## COAL CAR SHORTAGE.

**O**NE of the biggest coal companies operating in East Tennessee advises the MANUFACTURERS RECORD that it is short an average of 75 cars per day, and cannot seek to extend its trade because of the inability to ship its coal. Perhaps the plans which the railroads are making for expansion of facilities may help to meet this particular situation, but every day lost in providing cars is a day lost to the welfare of the country.

## THE POST OFFICE NOT TO BE REGARDED AS A MONEY-MAKING INSTITUTION.

THERE is hope for the proper management of the United States Post Office Department if Postmaster General New can carry out the plans which he so clearly outlined in a recent address at Baltimore. Mr. New realizes that the Post Office is a public institution for the public good, and not for money making. In his Baltimore address, in referring to the thought which some people seem to have that the Post Office must be a self-supporting institution, or even a money-making one, he said that there is no such policy on the part of the Government, and he adds:

"So long as this administration has charge of the Department there will be no such policy. I believe that the public is entitled to the very best service that ingenuity, skill and experience can give, and that we are going to give."

Mr. New's position is entirely correct. The old theory that the Post Office must be run as a money-making institution is fundamentally false. No other department of the Government is expected to be self-supporting. The Post Office Department is run for the benefit of the public, just as much as the Navy Department or the Army, or any other branch of the Government service. It should not be regarded as a money-making institution. The aim of the Government should be to provide the greatest possible degree of efficiency in postal service for the good of the entire country, with no particular relation to the question of whether the Department is even self-sustaining or not.

The country demanded the establishment of the Parcel Post System. It is run at an enormous loss, comparing the receipts and expenditures. It has grown with such remarkable rapidity that there is probably not a post office building in the country adequate, without serious inconvenience, to meet the needs of this service alone. Every year, indeed every month and every day, adds to the volume of parcel post business, and there is no likelihood that the public will ever abandon this system. But the country as a whole has to bear the heavy loss in its operations.

No argument has ever been advanced, so far as we know, to the effect that the Parcel Post System should be abandoned or seriously curtailed by reason of its cost.

The increase in the postal business, growing even more rapidly than the increase in business of the country at large, indicates that people everywhere are more and more developing a nation-wide correspondence, which inures to the welfare of the country. Business men are using postal facilities to a larger extent than formerly, and this grows apace. The development of typewriting has tremendously increased the opportunity for correspondence, for business as well as for private purposes. All of this means a larger postal business, new and larger post office buildings, more clerks, more mail cars, more mail clerks on railroad trains. Shall the nation curtail this business, or shall we go forward, meeting the demands of the country by providing the facilities needed for the postal business without regard to whether there is a deficit or a surplus in the Post Office Department?

Shortly before he retired from office Postmaster General Work pointed out the need for many post office buildings, specifying a large number of places where the facilities are wholly inadequate to the needs of the postal business. His list could be greatly extended. Mr. Work showed that new buildings could be erected by the Government at prices which would save many millions of dollars annually for the amortization of the cost of these buildings as compared with the rents the Government is now paying.

No provision has been made for carrying out Mr. Work's

suggestions, but unless the country enters upon a large program of erecting post office buildings it will find itself within the next year or two handicapped, its postal business halted, mails delayed and the value of mail service lessened by the long and interminable delays which will follow.

The writer heard some weeks ago that at a tourist resort post office there was such a tremendous rush of mail about Christmas time that mail stacked up over an area 30 feet long, five or six feet high, and several feet wide, was not even touched for over a week. Whether the statement is literally correct or not we do not know, but it was made by an intelligent man who said that he personally saw it. We do know that mail is greatly delayed even now, by inadequate housing of post office operations. Conditions of this kind prevail in the large cities as well as in the small ones. In some places, especially in tourist towns, post office lobbies will often be crowded almost to suffocation by people seeking general delivery mail, and often a line of men and women is stretched through the lobby far out into the street. That is a waste of time which, viewed from the economic standpoint alone, exceeds the cost to the country of building a post office adequate to the needs of such communities.

A cheese-paring, niggardly policy has prevailed in the management by the Government of the Post office Department just as in the management of river and harbor and other activities. People have talked about the "pork barrel" who could not to save their souls from eternal loss point out any important "pork barrel" schemes either in the building of post offices or river and harbor work. Here and there possibly might be found an unimportant case, but we venture the assertion that 99 per cent of all the work done by the Government in construction activities is badly needed, and that there is infinitely less of "pork barrel", foolish construction schemes than can be found in private work.

One trouble with our country is that talk of "pork barrel" methods has made it well-nigh impossible to put through Congress bills essential for the best interests of the country. But this Administration should have a broad enough appreciation of the needs of the times as to erect the post office buildings that are so sadly needed, and carry forward the construction activities in other lines of work, regardless of all talk of "pork barrel" schemes.

We are glad that Mr. New has presented his view of post office management so clearly. His address is found elsewhere in this issue. A letter which is lying on the writer's desk at the moment admirably fits in to this discussion. Writing of many things our friend says:

"Do you realize that the wonderful records of our discoveries in chemistry, physics, astronomy, geology, biology and the like are printed on paper that will fall to dust within a century; that they actually will not be capable of being handled without crumbling? The treasures of modern science are printed on such stuff as that, and NONE of it is preserved even on linen paper! Suppose you should ask Congress to endow a Bureau of the Department of the Interior for the purpose of paying enough to gather the masters of modern science together to hold a great ten year session to winnow modern scientific knowledge and select from it that which would suffice to reconstruct our present knowledge if our mammoth perishable records were to be lost, and to print this compendium upon parchment with unfadable ink, from the only type that will transmit unfadable ink, to wit, wooden cut type, and to ask \$40,000,000 for this work, what success would you have? You would be hooted as unpractical. But the Egyptians, and the Chaldean peoples of various race and creed, and the Phoenicians, and many more, left mammoth records of the science of their day, almost as imperishable as the granite hills. Were those practical men? Nay! They were wilder visionaries than the wildest dream of any man who ever dreamed when he contemplated being the absolute master of the world."

## MISSOURI PROPOSES TO DO ITS PART IN LAW ENFORCEMENT.

MISSOURI, cursed for many years by the pernicious influence of great brewery and whiskey interests, has passed some prohibition laws which if properly enforced will make bootleggers fight shy of that State. What Missouri has done in this respect should be followed by every other State in the Union. The prohibition laws are a part of our National Constitution. Every State should do its utmost to see that they are vigorously upheld. Especially should every State do as Pennsylvania, under Governor Pinchot, is doing in the rigid enforcement of all prohibition laws. Missouri and Pennsylvania are setting the country a wise example. Pennsylvania, in enforcing law and order in the matter of prohibition, and Missouri in passing laws which if enforced, as Pennsylvania is doing, would soon result—if followed by other states—in destroying the whole bootleg industry in the country.

A dispatch from Jefferson City, Mo., to the Post-Dispatch of St. Louis, gives the following facts in regard to these laws:

"The new prohibition enforcement law, supplementing the enforcement law passed in 1919, was finally passed by the Legislature yesterday, and will become effective 90 days after it is signed by the Governor. It contains many drastic features, particularly increasing the penalty for violations to imprisonment in the penitentiary for some offenses.

"While the bill has been explained in the Post-Dispatch from time to time during its progress through the Legislature, it has been changed in many respects. A brief synopsis of its principal provisions is here given.

"The use of any distilling or brewing equipment in the manufacture of intoxicating liquor is made a felony, punishable by imprisonment in the penitentiary for two years.

"Possession of such equipment is made a misdemeanor punishable by a fine of not less than \$100 nor more than \$1000, and imprisonment for not less than 30 days nor more than one year.

"Any manufacturer of nonalcoholic beverages through the process of dealcoholization who removes from the vat any of the liquid before the alcohol is removed is held to be guilty of a felony, punishable by a fine of not less than \$1000 and by imprisonment for not less than one year.

"Any person who shall reclaim ethyl alcohol except under a permit of the United States Government is held to be guilty of a felony, punishable by imprisonment in the penitentiary for not to exceed five years, or by a fine of \$1000 and imprisonment in jail for one year.

"Screens or blinds which would obstruct a view from the street of the entire interior of a soft drink stand are prohibited under penalty of a fine of from \$200 to \$1000, or imprisonment for from 30 days to one year for the first offense; a fine of from \$300 to \$1000 and by imprisonment for from three months to one year for the second offense, and by a fine of \$1000 and imprisonment for one year for the third offense.

"Concealment of intoxicating liquors in a soft drink stand is prohibited under the same penalties.

"Sale of any soft drink, having the appearance or taste of beer, except in the original bottle or keg, branded with the name of the manufacturer, is prohibited under the same penalties.

"Physicians prescribing intoxicating liquors are limited to eight ounces of ethyl alcohol, one quart of wine or one pint of whiskey, are prohibited from charging a higher fee than for other prescriptions, and are required to make a physical examination of the person for whom the prescription is written.

"Druggists are prohibited from charging a greater profit on whiskey prescriptions than on other prescriptions.

"The issuance of search warrants is limited to Circuit Judges and Justices of the Peace, the present law, which permits Circuit Clerks to issue such warrants, being changed. The original bill, which authorized the issuance of warrants to search private dwellings, is amended to strike out that provision.

"Property declared a nuisance under the prohibition laws may be declared forfeited at the discretion of the trial Judge.

"Sheriffs, policemen and other peace officers who neglect

to enforce the prohibition laws are held to be guilty of a misdemeanor and punishable by a fine of from \$500 to \$1000, or by imprisonment for from six months to one year.

"Possession of a deadly weapon in any vehicle in which intoxicating liquor is illegally transported is punishable by imprisonment in the penitentiary for not less than two years.

"Transportation of intoxicating liquor in a mortgaged vehicle is held to be a felony punishable by imprisonment for not less than two years, or by imprisonment in the county jail for not less than one year, or by a fine of from \$100 to \$1000.

"Manufacture of 'moonshine,' corn whiskey or 'hooch,' which causes a person to become blind, insane or paralyzed or which kills a person, is made a felony punishable by imprisonment in the penitentiary for not less than two years, or by a fine of \$1000 and imprisonment in jail for one year.

"Manufacture of 'hooch or corn whisky' is made a felony punishable by imprisonment in the penitentiary for from two to five years, or by a fine of \$500 or imprisonment in jail for from three months to one year."

## WAS LIFE SIMPLE IN THOSE DAYS?

SCARCELY a day passes that one does not hear or read the statement that life is complex in these days, and the suggestion is constantly made that life was very simple in former days. We are very prone to think of this age as one entirely different from any other age, with more complex problems to solve and more complex relations in life than in the past, but in writing of this question bearing on a quotation which he had just read "life was simple in those days" a friend says:

"Was life simple in those days? I think not. Life was complex, but in a wholly different way from what it is in our days. There was never a time in the history of the world when men had to study etiquette, and use it, to the extent that they did then. Etiquette meant the right way to act in everything that a man did, so that he would not create offense. Men in those days were the politest assassins that ever lived. They never assassinated until they knew for sure, and beyond peradventure of doubt, that the cost was clear. There were no criminal lawyers then to set the guilty free and incarcerate the innocent, or to get a man off on probation to see how soon he might turn crazy again and commit another crime. When a man made a false move they, somebody high up near the throne, had his head cut off. They knew not the word psychology, but they were all psychologists, and they knew more about motives to action than our professors of psychology, for it was a matter of life and death. Those men were trained in the judgment of men to a degree that we know no more than we do about the proper use of a William Jennings Bryan prehensile tale! Nothing is more complex than human psychology, so I think that I am justified in saying that life among the ancients was terribly and dangerously complex.

"Again I read: 'The ancients, also, were intensely practical, and sought to make lasting records of the things which made existence possible and worth while.' This is likewise contrary to my reading of the past. The men of the past were idealists. They were visionaries. The very fact that they built so many monuments and inscribed them shows that they were thinking not of their own practical affairs, but of children to come in the distant future. Is that practical? It is interesting, and merits our gratitude, but it is not practical, for the practical man thinks and works for today and for his own interest in that day, and for nothing else. Just as soon as a man casts his vision ahead and thinks of the good of the race, and of his progeny, he has laid aside the sordid animal nature and has become idealistic, has become a little more divine than the crassly selfish practical man, and therefore somewhat lovable. If you want to find a practical man, walk down Wall Street and you will find swarms of them, sleek, well-groomed, well-fed, with sycophantic smiles on their faces, seeking like sons of Beelzebub whom they may devour. They are practical, they have no sympathy, they write no records of science on tablets of marble, but merely keep their lobbies in Washington to steer legislation for their benefit to make legal robbery easier, and are deaf to entreaties to endow institutions that might actually preserve the knowledge of our day."

## SINISTER ATTEMPTS TO UNIONIZE WEST VIRGINIA'S COAL FIELDS—PARALYSIS OF INDUSTRY LIKELY TO FOLLOW SUCCESS OF SUCH MOVE.

A STRIKE fund of \$4,000,000 is said to be in the war chest of the United Mine Workers of America. It is proposed to use whatever of this enormous sum is necessary to unionize the independent coal fields of West Virginia, according to a report from Washington.

While the non-union mines of other Southern states contributed to the country's supply of fuel last year, when the union mines were shut down on account of a strike, the rich fields of West Virginia were a vitally important source of supply to the outside world. In West Virginia, where there are no great industries to consume coal as in Alabama, the great preponderance of production is shipped out of the state. Owing also to the thickness of the beds and the ease of mining, the possible production of coal in West Virginia is sufficient to prevent a complete tie-up in coal supplies, it is declared. So long as the West Virginia fields remain independent no general strike of union coal miners can succeed in freezing the country into submission to the union demands. With the West Virginia fields unionized, however, President Lewis of the United Mine Workers of America would hold the industries of the nation and the very life of the people in the hollow of his hand.

That the United Mine Workers are prepared to go to any length to maintain and extend their strangle-hold on the industry, and that there is more public apathy than alarm over this situation is shown in the unavenged Herrin massacres by United Mine Workers and their sympathizers and the fact that there have been few trials and fewer convictions of the thousands of United Mine Workers who as a panoplied army of invasion undertook in 1921 to override government and unionize the mines of Logan and Williamson Counties in West Virginia by force of arms.

Until lawmakers, juries and courts, backed by the preponderating opinion of a thoroughly aroused public, shall deal with union outlawry precisely as other outlawry is dealt with, the whole fabric of government is endangered. A sinister shadow of privileged outlawry is just now skulking through the legislative halls of West Virginia's capital where a bill has been introduced to abolish the state constabulary. Is this in preparation of the day when the \$4,000,000 fund to unionize the coal mines of West Virginia will get into action?

There are fateful omens in these preparations to force unionism on the non-union coal miners of West Virginia. At least one inflexible judge of the Federal Courts in West Virginia has shown an understanding of the elements of the conflict. An Associated Press dispatch from Charleston is to this effect:

"Use of 'check-off' funds to unionize 'open-shop' mines was forbidden by Federal Judge George W. McClintic in an injunction handed down in a special session of United States District Court at Huntington today. The injunction prohibits the international organization of the Union from sending money into West Virginia to be used in organization activities.

"The decision was rendered in a case brought by the Carbon Fuel Company and 22 other mining companies against the international organization of the United Mine Workers of America.

"Interference with the operation of the plaintiff's mines or with their employees is forbidden.

"Simultaneously the Black Betsy Consolidated Coal Company and other defendant companies of the union are ordered not to pay any money to the union to be used in organization activities.

"The injunction directs further that the defendants shall not do, or cause to be done, anything toward calling a strike."

Without the check-off the mine workers union would cease

to be a menace. With the check-off in full force, it would be a monopolistic monster, well-nigh powerful enough to defy and paralyze the government itself. Before it was established as a fixture in all unionized mines, the United Mine Workers had a small and fluctuating membership. With it, every man working in a union mine is compelled to be a union man, and his employer is required to hold out from his wages such sums as may be levied by the union. and this money the union officers have at their disposal, without check or accounting. With 500,000 or more of miners belonging to the union this enormous fund, variously estimated at from \$15,000,000 to \$25,000,000 a year, becomes a tremendous weapon in the hands of the executive or executives who direct the destinies and the strikes of the workers.

With all the coal mines unionized and all the miners rigidly controlled and levied upon through the check-off, the president of the United Mine Workers of America would have such gigantic power and so huge a fund as to imperil the freedom and the very existence of industry.

## VALUE OF THE DOLLAR IN ADVERTISING.

It is now very generally recognized that the tendency of advertising expenditures is to reduce the cost of a product rather than to increase it. The reading public, which is the thinking public, is fairly well sold on the idea that properly directed advertising over a sufficient period of time is a strong factor in contributing to the decreased cost of a product as it reaches the final consumer.

The illustrations of this truth are numerous in the merchandising experience of the country in the past twenty years or longer, and the commodities which have been cheapened in price as the quality was improved range all the way from pins to automobiles, and from raisins to corn and wheat products. Increased sales mean increased profits and lower costs.

As bearing on one phase of the question a recent interesting address before the Boston Chamber of Commerce by James O'Shaughnessy, secretary of the American Association of Advertising Agencies is pertinent. Mr. O'Shaughnessy pointed out that a dollar invested for advertising buys more than any other dollar which a business man invests and declared that the time is coming when advertising will shape the fate of every great undertaking, social and political as well as economic.

His statement is particularly interesting with respect to the security which is afforded the total investment of a manufacturer by his investment in advertising. Mr. O'Shaughnessy said:

"To ask a business man if he believes in advertising is to impugn his intelligence. To discuss with him the proper application of it to his business is to render service to him.

"Since the management of every business differs in ability, in finances and in outlook, even in the same lines, the form of advertising must shape to meet every variance. An advertising plan, however successful, cannot be borrowed and profitably used by another advertiser than the one for whom it was constructed. Every advertising campaign, however, helps to light the way to others.

"America leads all other countries in advertising; in the number of advertisers, in the size of individual appropriations and in the total volume. The activity has grown so large it has given to America an atmosphere of advertising that nurtures its progress. The manufacturers in America may now invest in advertising with greater security than at any other time or in any other country. The greatest single reason for this security is the soundness of publishers' rates.

"The manufacturer is putting great sums in his annual budget for advertising, even millions, and he invests this money with greater complacency than the investment he makes in his raw materials. He has learned out of his experience that his advertising investment is the soundest for the protection as well as the growth of his total investment."

## How Indianapolis Employers Curb Radicalism and Secure Industrial Peace Through the Application of the Principle of the Open Shop.

**T**WENTY years ago the city of Indianapolis was a union stronghold. Today the city is a 95 per cent open shop community in its commercial and industrial enterprises, and for a year or more it has had no labor troubles of a serious nature. Two decades ago no man could secure employment there nor could he give work to another man unless he possessed a union card. Today, through the efforts of the Associated Employers of Indianapolis, the right to work without dictation from union leadership is not only recognized but the principle is enforced and sustained to such a degree that Indianapolis is known throughout the country as a city where open shop conditions prevail and where, largely as the result of intelligent and unselfish leadership on the part of many of its citizens, "a steady and substantial prosperity has been achieved."

Prior to 1904, when the Association was organized, Indianapolis was known as a hopelessly striker-ridden community. Strike promoters and professional agitators held full sway. Business and industry were entirely at the mercy of the trouble-maker. Strike-lawlessness was common. Every line of business, every merchant, and every manufacturer was subjected constantly to needless losses and disturbances of the most demoralizing character. These conditions became well known, and as a result the establishment of new industries in the city was a matter of infrequent occurrence. Out of this state of affairs grew the Associated Employers of Indianapolis, an organization formed by progressive citizens of the town through the instinct of self-preservation, determined to bring to an end conditions which were strangling the business life and growth of the community, and which had finally become intolerable.

Today, states the association in its annual report, it is not at war with labor unions when such organizations are lawfully conducted with due regard to the rights of others. But it does insist that the un-American practices of the radical minority be restrained and not permitted to override and destroy the liberties of others. On this point the report says with a great deal of force:

"The privilege of labor to organize does not carry with it the right to inflict hardship or injury upon workers who refuse to join the union, or upon employers who refuse to adopt the closed shop, and exclude independent labor from their employment. In the interests of justice and fair play, the minority of unionized workers must not be allowed to arbitrarily dictate terms, conditions and costs at the expense of the community and other labor, and they shall cease their monopoly over labor and employment conditions.

"Objection is not made to the labor union as such, but to the assumed and unlawful and unwarranted activities of most labor union leaders, whose worth to their respective unions seems to be largely measured by the amount of discord they can unnecessarily stir up between otherwise satisfied employers and employees. The unions may continue to exist the same as any church, lodge, club or society, but they shall have no more rights under the law or beyond the law, in attempting to restrain trade or deny employment, than any other legitimate organization or group of citizens.

"The Associated Employers of Indianapolis recognizes that laboring men have a lawful right, just the same as all other citizens, to organize themselves into unions for the legitimate purposes of self betterment. The rights of unionists end, however, when their activities transgress upon the liberties of others who are not associated with them.

"Laboring men have a right to strike for any reason or no cause, but having quit their employment, they are no longer interested parties to the bargain previously existing. The right of one man to work is as much entitled to respect and enforcement as the right of another to cease work or

strike. The right of an employer to employ any workman he pleases, is as strong as the employee's right to refuse to work."

Strikes are always wasteful to an extreme degree. While a strike is in progress the community suffers. Its commercial and industrial prosperity is threatened, if not temporarily destroyed, and the families of the strikers themselves are often in distress and in many cases brought to actual want. The Association recognizes this and its efforts have been largely directed to the prevention of such industrial upheavals with their train of evils and their costs of many thousands of dollars both to employers and to wage earners. In discussing this problem the report states:

"A city prospers and develops only in proportion to the extent that its businesses are enabled to provide uninterrupted work for labor. Each individual is, therefore, personally concerned in all industrial questions involving the welfare of the city which either promote or adversely affect the community's industrial stability and its business growth. The very existence of the Associated Employers of Indianapolis is sufficient reason for there being no strikes here of magnitude or of serious consequence.

"Through concerted action, the Association has insisted upon orderly government to the end that ambition and initiative on the part of both employers and working people may be stimulated and protected to their mutual advantage, and the successful development and operation of the city's business institutions may be assured through sane and constructive enactments and their impartial enforcement. The mischievous trouble-making element in the unions have been taught that the Association is a power with which they must reckon when they attempt to abridge the lawful rights of other citizens of this community, or when they seek to obstruct and destroy governmental authority through the application of doctrines and policies of rule or ruin."

A spirit of fairness must prevail among employers with respect to their employees both as regards working conditions and the rate of wage. The Association says:

"One of the many benefits the community has derived through the existence of this Association, is to be found in its constant effort to encourage all employers, non-members as well as members, to be fair to their employees. The inconsiderate employer is the exception today, but wherever found, he is pointed out by strike agitators as the example by which all other employers are unfairly judged. In elevating the standard of industrial relations, this organization is therefore setting a high standard in the employment of labor.

"The Association has always urged employers to make the betterment of working conditions and the payment to their employees, of just wages commensurate with individual efficiency, loyalty and service rendered, one of the fixed policies of open shop business management. Wages and salaries paid by local employers compare favorably with those paid by the employers of any other competitive business center and in many instances, they exceed the rates prevailing in some of the larger cities. The business and industrial life of Indianapolis has in fact, made it possible for more working people to own their own homes here than in any other American city."

The Association declares further that working conditions are now so desirable in Indianapolis from the laborers viewpoint that gainful workers do not desire or feel the need of joining labor unions. "According to government figures 146,300 local people out of a total city population of 335,260 are gainful workers and only about 7000 of these are believed to be members of the Central Labor Union."

The following figures are presented by the Association as an evidence that the prevailing open shop conditions are responsible for the steady expansion of the city's industry and business within the past nine years:

"The city's manufacturing plants have increased from 886

in 1914 to 1215 in 1922; persons employed in the skilled trades have increased in the same length of time from 30,971 to 56,000; value of manufactured products has increased from \$139,700,069 to \$425,250,000; the amount of capital invested in Indianapolis industries has increased from \$87,569,251 in 1914 to \$220,250,000 in 1922; bank clearings have leaped from \$400,000,000 to more than \$900,000,000 a year; building permit valuations increased from about \$8,000,000 to \$26,055,297; the city's population has increased from 223,000 to 335,260; value of products increased 117 per cent while wages increased 133½ per cent."

It pays and pays well to make a community decent and law abiding, and it is worth all it costs in time, in money and in effort to keep it free from the influence of those whose chief business it is to create ill-feeling and to tear down, ruthlessly the industry and commerce which has been built up at such great pains through a period of years.

### ADVANCING WAGES SUGGEST IMPORTANCE OF DEVELOPING TRADE SCHOOLS THROUGHOUT THE COUNTRY.

THE advance in wages announced by the United States Steel Corporation, the Western Packers and others is in keeping with the general tendency to higher wages in the industries. Many of the cotton mills in the South recently made a large advance in wages, as have some New England mills. Thus the lower wages forced upon the country by the depression of 1921 are being gradually restored. With advancing prices and increased prosperity of business it was inevitable that where wages had been materially reduced they would in most cases have to be restored—in part, at least. There are some mechanical pursuits in which men are getting wages entirely beyond the value of the services rendered. This has come about largely by the lessening of the apprenticeship system, reducing the number of mechanics in some lines of work far below the needs of the industry. In the meantime there are thousands of men who if they had been given an opportunity to learn a trade would have been greatly benefited thereby and their work would have benefited the country. It becomes especially important for manufacturers and business men generally to see that trade schools are established all over this country where young men can learn mechanical pursuits which they are denied the privilege of learning under the rigid rules of many labor unions.

A lack of mechanics in some branches of industry can be traced directly to the indifference with which employers have looked upon the action of labor unions in lessening the number of apprentices. Employers of labor for years have seen these conditions and yet with rare exceptions have made no move by which young men were given the opportunity of studying trades. The country as a whole is therefore suffering because its own people fail to see the significance of the lessening of the number of mechanics in proportion to the population by reason of the labor organizations. Here and there throughout the country municipalities and in some cases individual organizations are establishing trade schools, in which boys and young men may be given a chance to learn an honest trade in order to make an honest living, but we have only begun a work which ought to have been vigorously pursued during the last twenty-five years or more. On nearly every street corner in cities and towns can be found boys and young men growing up in idleness because they have not been trained to work. There are enough people in this country to do all the work that the country has under way, notwithstanding the fact that many industries are hampered by the lack of men. This has come about by a faulty system and by the opening in former years of the floodgates for an inrush of Europeans whenever labor was scarce.

Immigration is not the real way to settle this problem. The

way that it should be settled and the only way that it can be settled aright is to develop the people we have by training boys and young men in trade schools or through the apprenticeship in open shops for honest work instead of developing thousands and in the aggregate hundreds of thousands of idle loafers who, never having been trained for any employment, fall an easy prey to crime. We should at the same time use the most modern labor-saving machinery whenever possible. Our responsibility as individuals and as a nation is to safeguard the boys and train them aright. To undertake to solve our problems by bringing in an enlarged number of the lower classes of Southern Europe would only be to complicate the situation and add in the future infinite dangers from an evergrowing alien population.

### COTTON PLUS HUMANITY.

IN a recent issue of "Barrons," the well known and widely read and widely quoted newspaper, edited by Mr. C. W. Barron, there is nearly a page tribute to Mr. J. S. Wannamaker, president of the American Cotton Association. In this article a high tribute is paid to Mr. Wannamaker for the superb work he has done in awakening the world to the value of cotton.

In closing this lengthy and interesting article, Mr. Henry Alloway, the writer of it, says:

"It is in its finance function that the Wannamaker organism has its pre-eminent potency—for it has reached the point where excess production dangers minimized, panic marketing ceases to be an overhanging sword. Warehousing becomes protective—and to put the storage of cotton upon business bases there develops what even recently would have been characterized as impossibility—the readiness of local bankers throughout cotton area to accept warehouse receipts as tangible, desirable foundation for reasonably continuing loans. And by this same sign of newly created spirit there is change in transportation attitudes—the warehouse ample buffer against what was the habit universal of skurrying cotton shipments with never a thought of grace, no matter what market conditions might be or threaten.

"And no whit of this achievement has been attended by buncombe or bullyragging. Banks are not proclaimed bandits, railways conspiracies, exchanges charnel houses. Every move has been a constructive move. As government tax nomenclature gives weird sound to 'levies at the source,' so—happily, per contra—John Skottowe Wannamaker is yielding new significance to 'production at the source.' He is the worth-while market revolutionist of a hundred years.

"The lad who gave up his own schooling to be a rural station agent, so that a brother (today a noted northern educator), might go to college, the young man who from a cross-roads clerkship climbed into proprietorship, who ventured into local banking, who essayed farming, who in every undertaking broadened, in every gain of strength proffered strength to others, becomes the matured capitalist whose one certified aim is public service—and that service crystallized into an incorporation mutuality whose activities, though specialized, are become a national asset—the Game of Cotton Plus Humanity."

### Plans to Develop Potash Deposits.

Stiles, Tex.—Extensive explorations of the subterranean deposit of potash near here are being made by the Pennsylvania Drilling Company, preparatory to beginning mining operations. The extent of the deposit is to be determined by the drilling of a number of wells by the diamond core method. The second well is now being drilled and work will start soon on another three miles east of the discovery well. The potash underlies the surface at a depth of 800 to 1000 feet, it is stated, and the strata has a thickness of 200 to 600 feet.

## Nearly \$60,000,000 of Southern Improvement Bonds Sold in First Quarter of 1923.

The total par value of 276 issues of Southern improvement bonds sold during the first three months of 1923 reaches \$58,881,258, and for March the total is \$17,847,892. Each of the items represented in this survey has appeared in our Daily Bulletin and in the financial news columns of the MANUFACTURERS RECORD.

Bonds sold for the construction of roads, for street paving, and for bridge construction, total \$3,589,000 for March, and for the erection of school buildings the total is \$4,394,000. In this latter classification Missouri ranked highest for the month with a total of \$1,830,000. During the same 30 day period the total of bonds represented in the construc-

tion of sewers and for drainage, waterworks, and irrigation projects, amounted to \$4,763,000 with Texas ranking first with a figure of \$1,893,000.

Construction projects including the erection of hospitals, courthouses, city halls, electric light and power plants, city, county and state improvements, incinerators, fire equipment, etc., are included under the general heading of miscellaneous and total \$5,101,892 for March.

A summary of the sales for January with its total of \$20,831,800, and February with its total of \$20,201,566 was published in the MANUFACTURERS RECORD of March 8. Figures for March and for the first quarter of 1923 are published herewith.

SUMMARY OF BOND ISSUES, BY NUMBER, BY CLASSIFICATION AND BY STATES, MARCH.

		Roads.		Schools.		Sewers.		Miscellaneous.		Total Issues.	Total Value.
Alabama	1	\$10,000	2	\$58,000	1	\$284,000	3	\$599,000	6	\$893,000	
Arkansas	2	180,000	1	160,000	2	400,000	3	201,000	8	839,000	
Florida	1	100,000	1	160,000	2	170,000	6	1,763,000	10	2,193,000	
Georgia	..	..	1	60,000	..	..	1	70,000	2	130,000	
Kentucky	..	..	1	150,000	1	25,000	1	65,000	3	240,000	
Louisiana	5	754,000	4	265,000	2	106,000	3	275,000	14	1,400,000	
Maryland	1	30,000	..	..	..	..	..	..	1	30,000	
Mississippi	3	631,000	1	175,000	3	600,000	2	385,000	9	1,791,000	
Missouri	1	150,000	4	1,830,000	1	65,000	2	247,000	8	2,292,000	
North Carolina	3	290,000	5	475,000	1	350,000	4	265,000	13	1,380,000	
Oklahoma	..	..	1	26,000	1	67,000	2	125,000	4	218,000	
South Carolina	2	200,000	3	190,000	1	100,000	4	405,000	10	895,000	
Tennessee	4	279,000	1	55,000	1	400,000	3	180,500	9	914,500	
Texas	5	625,000	4	650,000	6	1,893,000	7	521,392	22	3,689,392	
Virginia	1	300,000	1	300,000	2	303,000	..	..	4	903,000	
West Virginia	1	40,000	..	..	..	..	..	..	1	40,000	
Total	30	\$3,589,000	29	\$4,394,000	24	\$4,763,000	41	\$5,101,892	124	\$17,847,892	

SUMMARY OF BOND ISSUES, BY NUMBER, BY CLASSIFICATION AND BY STATES, FIRST QUARTER, 1923.

		Roads.		Schools.		Sewers.		Miscellaneous.		Total Issues.	Total Value.
Alabama	4	\$128,250	2	\$25,000	3	\$340,000	5	\$695,000	14	\$1,188,250	
Arkansas	4	380,000	3	118,000	1	400,000	3	201,000	11	1,099,000	
Florida	5	540,000	2	170,000	4	575,000	11	2,071,922	22	3,356,922	
Georgia	2	225,500	3	87,000	..	..	1	70,000	6	382,500	
Kentucky	2	430,000	2	212,000	3	64,000	3	1,105,000	10	1,811,000	
Louisiana	6	1,254,000	5	285,000	3	231,000	3	275,000	17	2,045,000	
Maryland	2	617,000	3	662,000	1	500,000	4	1,365,000	10	3,144,000	
Mississippi	9	1,551,000	6	640,000	4	935,000	4	425,000	23	3,551,000	
Missouri	2	350,000	11	2,317,000	4	343,000	5	1,134,000	22	4,144,000	
North Carolina	3	290,000	10	937,500	3	365,500	13	11,824,000	29	13,417,000	
Oklahoma	1	200,000	3	301,000	2	112,000	3	166,800	9	779,800	
South Carolina	6	600,000	3	190,000	1	100,000	6	553,000	16	1,443,000	
Tennessee	5	479,000	4	665,000	1	400,000	4	380,500	14	1,624,500	
Texas	16	3,765,000	6	700,000	13	3,143,000	17	4,353,286	52	11,961,286	
Virginia	7	1,411,000	4	760,000	2	303,000	4	680,000	17	3,154,000	
West Virginia	3	5,330,000	1	150,000	..	..	..	..	4	5,480,000	
Total	77	\$17,550,750	68	\$8,219,500	45	\$7,811,500	86	\$25,299,508	276	\$58,881,258	

### Big Building Gain in March Throughout Country, With Southern Cities Well Represented.

Building permits for March in the 207 principal cities of the country were \$422,591,923, a gain over March 1922 of \$161,564,177 or 61 per cent, according to the monthly building survey of S. W. Straus & Co. From these figures it is estimated that the total of permits issued in the entire country is around \$600,000,000. The same cities reported \$825,344,407 for the first quarter of 1923, a gain of \$278,320,726 or 50 per cent. The estimate of S. W. Straus & Co. on total permits for new buildings and alterations during the three month period is \$1,400,000,000. The report says further:

"Accompanying these record breaking achievements, there was a steadily advancing range of building costs both for labor and material. In many parts of the country shortages of these commodities were reported.

"Notwithstanding these activities, there were indications of a continued large potential demand for buildings of various types throughout the country.

"The greatest proportionate activities were in the Pacific Coast states which showed a March gain of 171 per cent. There were indications of greatly increased activities in the South where a March gain of 62 per cent was recorded as compared with a February gain of 10 per cent. The Central states gained 75 per cent and the Eastern states 41 per cent."

Among the Southern cities on which large gains are reported over March 1922 are the following: Houston, Tex.,

\$4,019,000; St. Louis, \$2,438,000; Kansas City, Mo., \$1,700,000; St. Petersburg, Fla., \$935,000; Washington, D. C., \$544,000; Birmingham, Ala., \$598,000; San Antonio, Tex., \$505,000; St. Joseph, Mo., \$293,000; Oklahoma City, Okla., \$276,000; Charlotte, N. C., \$301,000; Covington, Ky., \$292,000; Dallas, Tex., \$466,000; Knoxville, Tenn., \$257,000; Winston-Salem, N. C., \$354,000; Little Rock, Ark., \$244,000.

### Work Begins on Baltimore's \$25,000,000 Port Development—Dredging to Cost \$300,000.

In preparation for the construction of the McComas street bulkhead which is involved in Baltimore's program of port development entailing a cost of \$25,000,000, actual work has begun on dredging mud from the site. Contracts were recently awarded to the Sanford & Brooks Company and the Arundel Corporation on a joint bid of \$304,000 for a fill to obtain a satisfactory bottom at the point where the bulkhead piles are to be driven and it is expected that this preliminary work will take about a year.

Upon completion of the bulkhead, a total of 2400 feet of water front will be available, and eventually it is understood there will be eight 1200-foot piers on the McComas street tract, 56 berths for steamers and 40 warehouses. Details are being handled by the Public Improvement Commission and the Port Development Commission. Bancroft Hill is the harbor engineer.

## Governor E. Lee Trinkle of Virginia Writes for the Manufacturers Record on the Danger to the States of Federal Interference With Tax-Free Securities.

By E. LEE TRINKLE, Governor of the State of Virginia.

Driven on by the lash of ceaseless propaganda insidiously circulated, the House of Representatives has passed House Joint Resolution 314 having for its ostensible object the amendment of the Constitution extending the field of Federal taxation so as to include income from State and municipal securities, but having for its true purpose the placing of the credit of the respective States within the despotic control of Congress.

Upon this legislative masterpiece full four hours and forty-three minutes of general debate was lavished, two hours, twenty-three and one-half minutes to a side. Well may we this day give thanks to the Fathers for their foresight in providing us a Senate—a saucer wherein may cool the hot and ill-considered measures of the House, ere they are placed to our lips with the injunction to quaff the fatal dose. May we not also doubt the wisdom of laying destructively the ruthless hand of inexperience and quackery upon the constitutional fundamentals which these same Fathers have erected?

That the amendment was designed to give the Government control of the credit of the States is manifest. That the tax feature so loudly urged by the proponents is simply a masquerade is equally apparent. The resolution in substance would give the Government power to tax the income from State and municipal obligations *hereafter issued* at a rate not higher than it taxes the income from Federal obligations *hereafter issued*. It would give each State the power to tax the income from Federal obligations *hereafter issued* at a rate not higher than it taxes the income from its own bonds *hereafter issued*. As stated by the author of the original resolution, the provisions giving the States the right to tax the income from Federal securities is simply a sop to get the States to ratify the whole proposition. The expression "*hereafter issued*" is the joker in the resolution. Its friends admit, as indeed it must be admitted, that the Federal Government is not issuing, does not need to issue, and does not expect to issue any new obligations. It probably will not do so in the next two or three generations. It may have to refund some part of the war debt, but this can be done without making the refunding bonds liable to State and Federal taxation under the proposed amendment, if adopted.

For this reason it is plain that the "mutuality" provisions as to State taxation of income arising from Federal securities is nothing but a sham, except that it is the worst sort of joker, for while the resolution appears on its face to be somewhat fair and is claimed by its friends to confer "mutual" rights upon the States and Federal Government, in reality it has no meaning whatever, for since the Federal Government will not issue any new securities "after the ratification of the article" there is no limitation of Federal taxation upon the income from State securities.

Mr. Garner of Texas offered upon the floor of the House of Representatives an amendment striking out the provisions limiting the Government's tax upon State securities by its tax upon Federal securities, and substituting a provision which in effect would limit the tax upon these obligations to the rate imposed generally upon other income. It is true that the verbiage of Mr. Garner's amendment was not exactly clear, but with a slight modification this could have been perfected. If the object of the resolution had been purely and

simply one of taxation, Mr. Garner's amendment with an immaterial change gave to the Federal Government all the rights which could have been desired by the most ardent supporters of the resolution. However, in a letter from the Secretary of the Treasury to Mr. Green of Iowa, instead of suggesting a qualification of the language, the Secretary stated that Mr. Garner's amendment would defeat the whole purpose of the resolution! Think of it! If the Government is not allowed to impose a tax upon the income from State and municipal securities different from and higher than the rate of tax it imposes upon all other income, the amendment to the Constitution is said by the Secretary of the Treasury to be worthless!

Is it not clear from this that the real purpose, the motive which actuates the Treasury and those behind this resolution is not the proposition of extending the field of Federal taxation so that all income may be made subject to the tax but it is to give the Government a stranglehold upon the credit of the States? I challenge any fairminded person to read carefully the record of the hearings before the House Ways and Means Committee and the debates on the floor of the House and then to say that the prime motive of the proponents of the resolution was the question of taxation. In the statement of every witness and in the remarks of every Representative favoring the resolution there is found the idea that the States and their municipalities are issuing obligations at a reckless rate which must be curbed by the strong hand of the Federal Government.

Moreover, if the proponents of the measure were sincere in their declared purpose to remedy a tax situation, the amendment should apply to the taxation of State securities already in existence, as well as those which may be issued hereafter. Apparently no attention was paid to this point during the hearings. Secretary Mellon did make a statement which indicated that he thought it might be unconstitutional to allow the tax to apply to the securities already in existence. While the Secretary is one of our most eminent financiers, and while we all should feel and do feel the deepest respect for his opinions in financial matters, his reputation is built on his ability as a financier and not as a constitutional lawyer. An opinion from the Attorney-General or the Secretary of State upon this point would carry far greater authority.

In the national prohibition cases, recently determined, the Supreme Court decided in effect that anything proposed by a resolution to which two-thirds of both Houses of Congress agreed and which is ratified by the legislatures of three-fourths of the States becomes a part of the Constitution and is, of course, constitutional, no matter how repugnant it may be to the other provisions of the instrument and no matter how many of them it may over-ride.

Just at this juncture I desire to make clear the distinction on the one hand between the reason for the exemption of State securities from Federal taxation and Federal securities from State taxation, and on the other hand the reason for the exemption of both kinds of securities from taxation by the sovereignty which issued them. In the latter case the exemption is based upon contract and could not be withdrawn without impairing this obligation. In the former case the exemption is based upon a rule of law, a rule arising from the implied provisions of the Constitution it is true, but a rule of law no less. This rule of law grows out of the proposition first luminously expressed by Mr. Chief Justice Chase,

but preexisting and antedating this expression in the hearts and minds of our jurists from the earliest foundation of the Republic, that this Federal Union is "an indissoluble Union of indestructible States," and the equally axiomatic expression first put into words by Mr. Chief Justice Marshall that, "The power to tax involves the power to destroy." From these self-evident truths it follows that the idea of State taxation of national property or credit, and national taxation of State property or credit is incompatible with the idea of national and State sovereignty, respectively.

This is a fundamental rule of constitutional law; but there can, of course, be no vested right in a rule of law. This was fully decided in the prohibition cases wherein it was held that the right to sell ardent spirits acquired under a license prior to the effective date of the prohibition law could be taken away at the pleasure of the government granting the license. Therefore, any right which the holder of State securities may have to exemption from Federal taxation and vice versa may be taken away by the Constitutional amendment in question without depriving him of any vested right or taking from him any property without due process of law.

At the hearings before the sub-committee of the Senate Committee on Judiciary, Chairman Nelson made the point that the wealthiest man in Minnesota had all his property invested in non-taxable securities and though he was a millionaire he paid no taxes. To think that the proposed amendment if adopted would require the person mentioned by the Chairman to pay any taxes is erroneous and a confusion of terms. It is obvious that if the amendment is adopted as it passed the House no tax could be imposed on this person because the amendment in terms provides that it shall not apply to securities issued prior to its ratification. Though it might appear that the amendment would require this person to pay some taxes if he bought securities issued after the adoption of the amendment, a careful examination of the facts shows us that the appearance is deceptive. There is an economic law which controls the taxation of intangible obligations. This law may be stated as follows:

In the long run a tax cannot be imposed on account of the ownership of intangible obligations without ultimately leading to a total shifting of the tax burden from the obligee to the obligor. That is to say, in the long run, if a tax, whether it be an income tax or a property tax, is imposed on account of the ownership of intangible obligations, one of three things will inevitably happen. The taxpayer will move his residence from the sovereignty of the jurisdiction imposing the tax, or he will by some method evade the tax, or else he will so increase the rate of interest demanded for his money that ultimately the tax will be passed on and will be paid by the borrower. Speaking scientifically, Chairman Nelson might have said: "There is a man in Minnesota worth more than a million dollars. He lends his money out and does not collect a dollar of tax for the Government from his debtor for the simple reason that the Government itself is his sole debtor."

To illustrate the operation of the law which I have indicated above let me cite an experience in New York quoted from an article, "The Incidence of Taxation" by Mr. A. C. Pleydell, published in the Reports of the National Tax Association:

"The experience with mortgages taxation in New York illustrates how these taxes are shifted, and the principles are the same in the case of other forms of interest-bearing credits. Prior to 1905 mortgages in New York were liable to personal property tax, though most of them escaped assessment. Therefore, though the few that were caught paid a tax of  $1\frac{1}{2}$  to 3 per cent, according to locality, the interest rate was only slightly increased by the tax—about enough to cover the risk of being caught. Still, all borrowers paid this increased rate; a few lenders paid much more than the

increase to the tax collector; and most lenders kept the added charge.

"Then (in 1905) an effective tax was adopted, which the borrowers were forbidden to pay, and though the tax rate was only  $\frac{1}{2}$  of 1 per cent in place of the higher personal property rate, interest rates rose at once, while loans declined. A year later a lighter recording tax was adopted, and interest rates fell, while loans increased—even though the borrower paid the tax and knew that he paid it."

Since this law of the incidence of taxation is as fixed as the law of gravitation, and since it applies equally to property taxes upon intangible obligations and to taxes on the income arising therefrom, is it not manifest that the only way to induce the Gopher millionaire and those like him to pay any taxes out of his own pocket is to amend the resolution as I have suggested and empower the Government and the States each to tax obligations already issued by the others? The safest way to hit a man with a blackjack is to hit him when he is not looking, as otherwise he may step aside and avoid the blow.

I will not go into detail with regard to the discriminating taxation which the resolution invites against State obligations, as that matter would be more suitable for a publication devoted exclusively to legal discussions. However, I will say with Mr. Garner that if I cannot convince the Supreme Court or any nine impartial lawyers that under the terms of the resolution Congress is authorized to impose a normal tax of eighty per cent on income from State obligations while it imposes a normal tax of eight per cent upon other income, then I will never say another word against this amendment.

Those who favor the proposed amendment do not question the fact that if a tax is imposed upon the income from State obligations this tax will be passed on to the issuing States, for as Secretary Mellon said, endorsing the statement of Mr. Joseph S. McCoy, the Government Actuary:

"There is little doubt that under these conditions (after the passage of the proposed amendment) the future investor in what are now tax exempt securities would demand that they bear a rate of interest or be sold at a discount sufficient at least to meet this tax."

This truth is fully shown by the behavior in the market of the Liberty issues. Upon today's market 1st  $3\frac{1}{2}$  Liberty Bonds, the only issue entirely exempt from further income tax, may be purchased to yield 3.43 per cent. The other issues, identically like firsts except that interest from them is liable to the surtax, are selling on the average to yield 4.40 per cent. This difference of ninety-seven one-hundredths of one per cent or ninety-seven cents per year on each hundred dollar bond, over 20 per cent of the income, represents the amount of tax prepaid by the bond-holder to the Government.

It is idle to say that 1st  $3\frac{1}{2}$ 's escape taxation or are exempt. As a matter of fact, they have been fully taxed for their entire life and the Government collected this tax on the day it sold the bond. This is the only absolutely scientific and perfect self-collecting tax in existence. Federal Farm loan bonds are now selling on the basis of 4.41 per cent and they are competing in the market with equally good farm loan bonds yielding 6.50 per cent. This difference, 2.09 per cent, or thirty per cent of the income, is but a tax collected at the source when the bonds were issued. As stated by Secretary Mellon before the hearing, page 29, the Government can now sell at par a  $3\frac{1}{2}$  per cent security with exemption from further taxation. If these securities were liable for further taxation the rate would be somewhere from  $4\frac{1}{2}$  to perhaps 5 per cent. The difference inuring to the benefit of the Government cannot be regarded as anything except a tax already collected.

Precisely the same reasoning applies to the issuance of State and municipal bonds. Bonds of the State of Virginia may now be sold on a basis to yield 4.1 per cent. Our State

could issue any reasonable amount of bonds at about this rate. If, however, these bonds were further taxable by the State and Federal Government, I am informed by reliable brokers who deal in this class of securities, they would have to be sold on a 6 per cent basis, if indeed they could be sold at all. It is thus shown that the so-called tax exempt securities are mis-named and should be called tax prepaid securities.

As I have shown above, the tax upon tax prepaid securities is more than 30 per cent of the net income, and while it may be argued that a 30 per cent income tax is too low, I do not believe you can get any authority on taxation to say that a higher tax can be imposed successfully as an established policy. It is my experience and observation that there is a dead line of taxation somewhere between a tax which takes 10 per cent and one which takes 20 per cent of the taxpayer's income. While a government may take more for a brief time in a national emergency, yet as a fixed policy it cannot long endure.

Perhaps the earliest income tax imposed by man was in Egypt. The rate of 20 per cent. (Genesis xlvii, 24.) While this tax seems to have been successfully collected for a time, mark you its ultimate fruits. The dynasty of the King imposing it was overthrown and exiled, and the entire race of the prime minister who proposed the tax was taken in bondage. (Exodus i., 8.) Shortly thereafter the greatest of lawgivers fixed the rate of tax at 10 per cent of the income; under this law the nation prospered for more than one thousand years, during which time the law was never amended or revised. The lesson taught by the history of these primitive people is repeated in the rise and fall of every nation. Can you name one nation that successfully, as a fixed policy, imposed year in and year out a tax upon any substantial part of its citizens or subjects which took away more than 30 per cent of their income? I can recall a number who tried it but in every case the end was a revolution and an overthrow of the government. A detailed study of these tax systems that attempted too much and failed is not valueless to us today, for the thing that hath been, it is that which shall be. For these reasons I reach the conclusion that the 30 per cent income tax already collected on Federal and State bonds is sufficiently high.

The Senate Committee on the Judiciary has manifested a purpose to go deeply into the fundamental economic conditions underlying the proposed change. To this end it has requested the Treasury for information as to the accuracy of certain figures, tables, etc. submitted by the State of Virginia in relating to the additional charges in interest rates on National, State and Municipal bonds which will result from the adoption of the amendment, as well as the probable tax yield from this source. The Treasury, while denying in general terms the accuracy of some of the figures submitted, falls utterly to state what would be the correct figures. And, moreover, the Treasury in all cases when it does give actual figures fully bears out the contention made by this State. For instance, the Secretary shows that only \$67,925,712 is reported as interest received from State and municipal obligations by persons liable to the surtax. If the surtax applied to this income the tax collected would be less than \$20,000,000. Moreover, he shows that only about 5 per cent of the total interest from these obligations is reported by persons in the higher surtax classes, viz. those whose total income exceeds \$50,000 per year.

In discussing the effect of tax exemption on State and municipal obligations the Secretary said: (House hearings p. 13.)

"Naturally, when the money can be gotten by municipalities through the tax exemption at a less rate of interest there is a tendency to go further with expenditures than those municipalities would go if they were paying the higher rates for money, and naturally there are improvements or undertakings begun that perhaps are not necessary."

He now tells the Senate Committee in his letter of February 16, 1923:

"It is the opinion of the Treasury that if it had placed the whole war debt on a tax-exempt basis there would have been practically no differential between tax-exempt and surtaxable obligations. On this basis the United States would be paying today approximately the same annual interest on tax-exempt obligations that it is now paying on its outstanding debt not wholly exempt from taxes and losing more in revenue."

In other words, as I understand him, the Secretary says that the abolition of tax exemption will raise the interest rate on State and local borrowings and thus discourage extravagance, while it will not raise the rate the Government will have to pay, on its obligations.

Doubtless before the Senate Committee reports the resolution, the Secretary will be afforded an ample opportunity to explain how the amendment will blow hot as to State and municipal securities and cold as to Federal securities.

I did not greatly fear that in the closing days of the Sixty-Seventh Congress, this resolution would be passed by the Senate. However, I do believe that this question will live again when the Sixty-Eighth Congress convenes. The proponents of the measures are earnest and sincere in their belief that their resolution should be passed. I do not think they begin to realize the baneful effects which must needs follow its adoption. I, therefore, call upon the Governors of the several States to come together, either personally or through representatives, and to take counsel among themselves as to the effect of this changed policy upon their respective states, and to present a united front standing for such a course as they may deem advisable.

In concluding this cursory sketch, permit me to observe that the centripetal forces pulling everything in toward centralization in the Federal Government, have, of late years, grown so strong that they have well-nigh pulled our Republic out of balance. The States have been shorn of more and more of their power, and it has been lodged in the central authority, so that today there is scarce one subject left to local control. The real danger to our institutions is not from without, it is from within, it is the danger arising from taking the control of State affairs out of the hands of State authority where they can be best administered, and lodging them within the grasp of Federal power.

The process of centralization has gone merrily on, now by the slow erosion of judicial decision, now swept forward by the flood waters of constitutional amendment, until today about all that is left to the States is their honor and credit. The proposed amendment would take these away and place them irrevocably under the control of the central government.

### Cotton Price Fluctuations at Manchester—American Dearer, Egyptian Cheaper.

Manchester, Eng., April 3—[Special]—American raw cotton prices in 1922 showed a distinct upward movement and this tendency was maintained during the first quarter of 1923. On January 2 the spot price in Liverpool for fully middling was 15.40d., and although on March 29 the rate was 1½d. lower at 14.90d., the average daily price throughout the quarter was 16.05d., whereas the average for the year 1922 was 12.51d., and for 1921 9.97d. The highest quotation for three months ended March was 16.86d., on March 8, and the lowest 14.90d., on March 29.

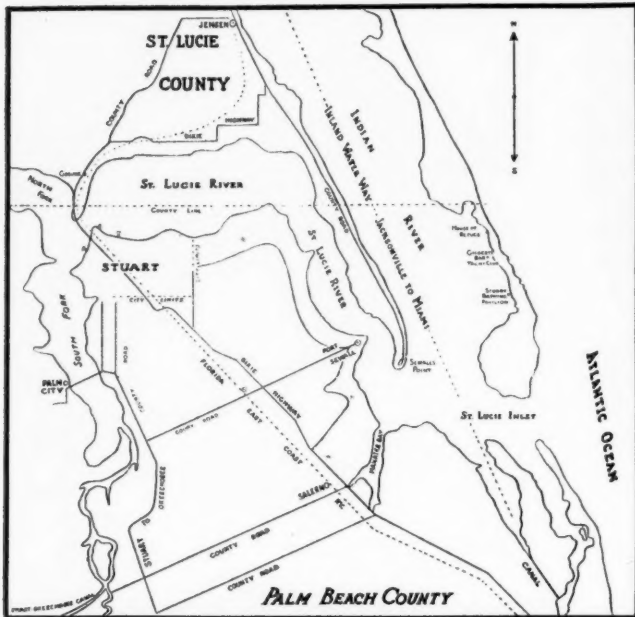
Values in fully good fair sakellaridis Egyptian cotton during the first three months of this year have depreciated, however, the daily average being 17.72d., compared with 18.18d., for the whole of last year and 18.99d., in 1921. The quarter opened at 17.80d., and 17.40d., was posted at the close. For the period January 18 to 26 the highest quotation for the quarter 18.25d., was registered, and 17.25d., from January 9 to 11 was the lowest.

## Rich Florida Region Seeks Water Transportation.

ST. LUCIE INLET IMPROVEMENT PLANS, AS RECOMMENDED BY CONGRESS, URGED FOR COMPLETION IN ORDER TO CARRY OUT HEAVY CROPS OF FRUITS AND VEGETABLES. SUGAR CANE, ETC., BESIDES LUMBER AND NAVAL STORES.

Thirty-five miles northward from West Palm Beach, on the coast of the Atlantic Ocean, is St. Lucie Inlet, a natural break in the shore line affording entrance to the St. Lucie River as well as to the Indian River. These large bodies of water constitute land-locked harbors, safe from the tempests of the ocean, as well as inland waterways of great value, the latter affording a water route safe from the ocean for many miles north toward Jacksonville and south toward Miami. Some years ago Congress recommended the improvement of St. Lucie Inlet providing for a channel 18

of the improvement as outlined, with perhaps some modifications which time and study have shown to be of value. With that end in view the Club has addressed Gilbert A. Youngberg, Lt. Col. Corps of Engineers, U. S. A., Jackson-



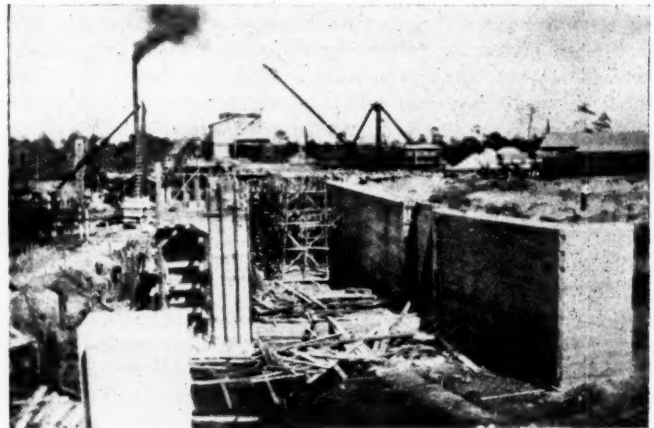
ST. LUCIE INLET AND ADJACENT TERRITORY. feet deep with 250 feet wide at the bar and continuing 200 feet wide to Sewall's Point, where the St. Lucie river begins and continues to Stuart, at which place the river is considerably wider, as will be seen by the map herewith.



ROSIN IN BARRELS NEAR STUART.

The war, however, and conditions following the Armistice interfered with the execution of this and many other enterprises, so that plans for development of St. Lucie Inlet were deferred.

Now the Stuart Commercial Club, C. Van Anglen, secretary, has begun a vigorous campaign looking to the accomplishment



BUILDING EAST LOCK ST. LUCIE CONTROL CANAL.

ville, Fla., presenting a detailed report of what has been done by Congress in its endorsement of the plans and urging that the work be carried out. Statistics are also given showing the volume of natural products outgoing from the section which would be benefited by the improvement proposed, as well as the incoming manufactured products to the region, the whole constituting an impressive traffic in bulk and as to value in dollars and cents.

Mr. Van Anglen in the report points out that when the St. Lucie canal, reaching from the south fork of St. Lucie



WEST LOCK ST. LUCIE CONTROL CANAL.

River to Lake Okochobee, is completed and the north St. Lucie county drainage project also now under way, is finished, along with other drainage projects, there must be water transportation provided to handle the increased traffic that will result. The material increase of population and industry in this section demands water transportation in order to function economically and successfully. As a matter of public safety, irrespective of other considerations, it is urged that the Inlet should be improved as a harbor of refuge, its natural advantages in this respect, it is asserted, being unequalled elsewhere on the ocean side of Florida. Moreover, it is urged that people who invested around St.

Lucie River, when the plans were previously approved by the Government, are entitled to have them carried out.

As the depth of water in the Inlet at present is not sufficient for large boats to enter, the amount of freight passing through, excepting fish, is negligible, but the Club's report says that steamship lines have given assurance that they will enter the port when the channel is deepened. Besides the Inlet has been used during the past year by approximate-



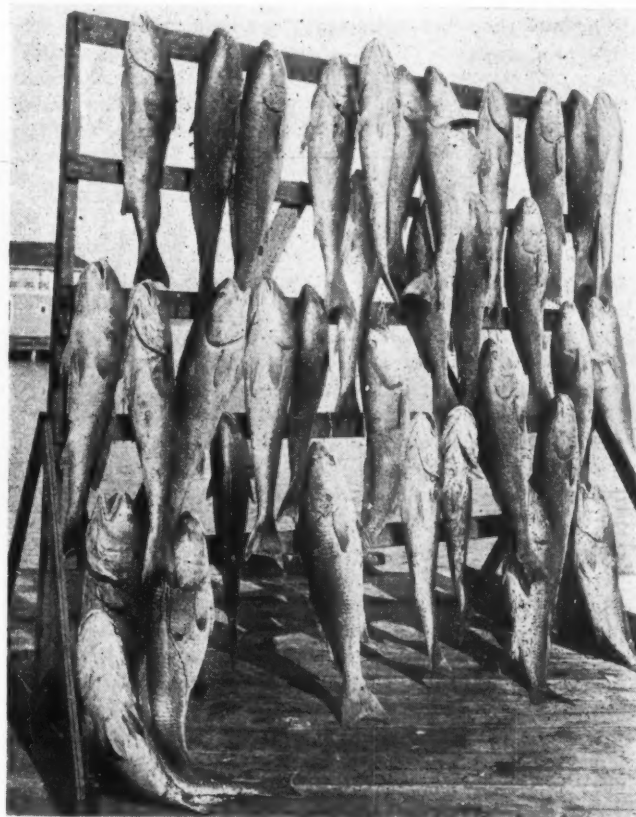
SUGAR CANE GROWING NEAR ST. LUCIE RIVER.

ly 100 yacht owners who came into the harbor and enjoyed the facilities provided by the St. Lucie River Yacht Club, but many more yachts would avail themselves of this harbor if there was deeper water, as it affords excellent anchorage. The fishing trade has about 100 boats in service, which draw from two to six feet only.

Traffic figures presented show that during 1922 there were 4000 tons of citrus fruits, 2000 tons of pineapples, 1500 tons of vegetables and 2990 tons of fish, most of which were shipped out of Stuart, the total being 10,490 tons valued at \$1,221,000. Incoming freight included hardware and paints, fertilizers, trees, shrubs, dry goods, lumber, etc., cement, brick, tile, groceries, drugs, meats, machinery, structural iron, gasoline, kerosene, lubricating oil, hay, feed, fuel oil, and road oil, having a total of 27,900 tons and a value of \$1,138,500.

Total of both outgoing and incoming freight was 38,390 tons and total value \$2,359,500.

It is also pointed out that when the canal is finished Okeechobee City on Lake Okeechobee will ship heavily via



A FEW FISH CAUGHT AROUND ST. LUCIE INLET.

St. Lucie Inlet. Shipments from there in 1922 amounted to 1250 tons of fish, 500 tons of vegetables and 220 tons of fruit, with a total value of \$429,000, and this is increasing as the country is drained and is settled. There will also be many vessels go through the canal to and from the lake



PINEAPPLES GROWING IN ST. LUCIE INLET REGION.

for either business or pleasure. Other points on the Lake are also shipping heavily of truck and fruits.

Lumbering, gathering of naval stores—rosin, turpentine, etc., are also actively conducted in the country adjacent to and tributary to Stuart and other points on the St. Lucie River and the several illustrations accompanying this article show the richness of the entire region and the nature of the canal improvements which wait upon the fulfilment of the Inlet plans to enjoy to the utmost their far reaching advantages.

### North Carolina a Horticultural Paradise.

A recent issue of the monthly Bulletin of the North Carolina Department of Agriculture, Raleigh, N. C., is wholly taken up with an exceedingly interesting and important article entitled "North Carolina: a Land of Horticultural Opportunity," by C. D. Matthews, State Horticulturalist. Pointing out that the state "is a long, narrow strip of land occupying a medial position between North and South," Mr. Matthews notes that it extends 503 miles from east to west with an average width of about 100 miles and that as it reaches from the ocean to the highest eastern mountains, "it has a very complex topography, a varying climate, a multiplicity of soil types and a consequent wide range of fruit and vegetable products. \* \* \* In the coastal plain section the winters are so mild that truck crops such as spinach, kale, onions, cabbage, peas and lettuce are extensively grown in the open without protection. \* \* \* The average length of the growing season, as ascertained by the Weather Bureau records, varies from 250 days near the coast to 200 in the central Piedmont section and to 180 to 190 days in the mountains. \* \* \* On account of the wide range in altitude, the numerous soil types and the varied climatic conditions, the native flora of North Carolina is extremely rich and varied. A survey of the native fruit-bearing plants of the state shows eighteen families, including thirty-nine genera and upwards of 330 species."

The coastal plain section of North Carolina, where the winter and the early spring months are sufficiently mild for the growth of many vegetables for early marketing, is admirably adapted to truck raising. It consists of 34 counties and ranges from the ocean for a distance of 100 to nearly 200 miles inland, the soils varying from sand to sandy loam and fine sandy loam, which warm up quickly and are easily cultivated. The temperature in summer seldom goes above 100 degrees and the heat in those counties near the coast is tempered by the sea breeze. Then, as to the colder seasons, the modifying influence of the waters of the Albemarle and Pamlico sounds, both of which are large, and also of the broad tidewater rivers lessens the danger from either late or early frost. The sandhill section includes parts of nine counties and is a region of elevated sandy ridges constituting a well marked area between the coastal plain and the lower Piedmont region. It lies from 300 to 700 feet above sea level. This section has become well known for its winter resorts at Pinehurst and Southern Pines, but until a comparatively recent day little attempt has been made to cultivate what was regarded as barren soil, that was originally covered with a magnificent growth of long leaf pine now almost entirely removed by turpentine operators and lumbermen, and in place of which has sprung up second growth pine, oak, etc. The climate is mild, the average date of the last killing frost in the spring being April 6 and the first killing frost in fall being October 29.

The Piedmont section lies between the coastal plain section on the east and the sandhill section on the southeast, and the high mountains of the western part of the state. Less heed has been paid to cultivation of fruits and vegetables in the lower Piedmont region because cotton and tobacco raising has generally occupied the attention of farmers, but

in the upper Piedmont region many different kinds of fruits and vegetables thrive although the soil is also one of the best for general farming. The mountain region, irregular in shape, covers 5000 square miles and lies in a northeast and southwest position across the state. Its climate is favorable for extensive horticultural development, conditions being well adapted to certain forms of fruit and truck growing. In general rainfall is much heavier than in other parts of the state. Frost is late and early in spring and fall respectively.

But there are places in the mountains called "thermal belts" which are said to be entirely free from frost. "Distinct lines," says Mr. Matthews, "can often be seen separating bright, fresh verdure above the blackened frost-bitten foliage below. In the fall, when frosts have claimed all the tender vegetation of the valley, there will be seen longitudinal bands skirting the hillsides, showing for a month or six weeks all the freshness of summer." These bands are said to be due to the fact that during certain cool nights the temperature is relatively much higher on the slopes of the mountains than at their base. As a result of investigations it was determined that a thermal belt is not a fixed and definite zone whose boundaries can at all times be precisely located. Under some weather conditions it may be at the base of a slope and under other conditions at the top of a slope. Nevertheless, the fruit in an orchard well up a slope may pass through a frosty night safely whereas fruit in the valley will freeze.

It is especially to be observed that the wide range and quality of fruits grown in North Carolina was demonstrated at the National Horticultural Congress held at Council Bluffs, Iowa, in 1910 when the sweepstakes trophy for the best general collection of fruit in the United States was won by this state against the keenest of competition; there were 33 states competing. North Carolina furthermore won 40 blue ribbons on fruit, the greatest number taken by any one state.

While practically all fruits can be grown in North Carolina the production of different fruit crops upon a commercial scale has been restricted to certain sections. The leading orchard fruit in the state is the apple, but the list of fruits largely grown there includes peaches, strawberries, grapes, dewberries, figs, blueberries, pecans, pears, cherries, quinces, plums, cranberries, raspberries, blackberries, etc. Truck growing includes white potatoes, sweet potatoes, lettuce, cabbage, onions, watermelons, cantaloupes, cucumbers, cauliflowers, beets, peas, celery, asparagus, string beans, eggplants, spinach, etc.

The Bulletin is excellently and completely illustrated and every page contains interesting and valuable information.

### Thirtieth Annual Convention of National Fertilizer Association.

In view of the decided improvement in the outlook for the fertilizer industry, an unusually large attendance is expected at the 30th annual convention of the National Fertilizer Association which will be held at White Sulphur Springs, W. Va., the week beginning June 11. Addresses and discussions will cover chemical and manufacturing problems, transportation, sales methods, cost accounting systems, etc.

In addition to the regular sessions of the National Fertilizer Association the Southern Fertilizer Association will hold their summer meeting; the Soil Improvement Committee of the National Fertilizer Association will hold a subscribers' and committee meeting; the Soil Improvement Committee of the Southern Fertilizer Association will hold a committee meeting.

Entertainment features will include golf games, etc.

## Postmaster General New Discusses the Post Office Department, Its Needs and Its Public Service.

In a recent address at Baltimore before the business men's meeting of the Postal Conference Convention, Hon. Henry S. New, Postmaster General, said:

"I am a business man and not a speechmaker. I am entering upon a new job, one with which I am unfamiliar, but one, as I have already discovered, is of tremendous magnitude. It has been so often said that the Post Office is the biggest business in the world that it is hardly worth while to repeat that here, and yet that is a fact, and it is very well for us to understand that and bear it in mind in thinking of the problems that have been solved by those charged with its direction. At this particular moment the newspapers are discussing—and very properly discussing—the conditions with which they are faced as users of the mail, and with which all business men are faced, as well as those who have to take the mail to you.

"You are interested, as business men and citizens, in every department of the United States Government; but the Post Office Department differs from all others because in that you are not only interested but on it you are absolutely dependent from day to day and from hour to hour. You are willing to pay for a first-class mail service and you are not going to complain at the cost; you are not going to complain if an excellent postal service costs you a good deal of money; and yet, bear in mind, that as a public enterprise, as a department of the United States Government, it is necessarily administered on a different basis from any private business, whether it is entirely personal or organized as a corporation. A corporation, just like a Government department, makes its estimate on the first of the year. It estimates the expenses it is bound to incur in the carrying forward of its business; it estimates so much for taxes, so much for insurance, and etc. You all know that is your business and it is a part of mine. But suppose some one item exceeds your original estimate, you can make that up. Your board of directors can make that up by mere grant of authority. Now, that is not so with the Post Office Department. Some emergency may arise in the carrying on of your business by which an extraordinary draft is made on some department. You say, all right, I have underestimated the cost of that, and I have got to take something from another fund and transfer it to the deficient account because this fund is now being exhausted and that one is not—both of them are my money; they are both necessary to the proper handling of my business. There is a surplus in one and a deficit in the other; I will simply transfer these.

"Gentlemen, I cannot do that with the post office business. The laws very plainly tell me I cannot. The statutes say that I cannot take money for an auxiliary fund and transfer it to the fund that is prescribed by Congress and granted it by the budget for the payment of clerks. I cannot divert from any other fund a sufficient sum of money to meet a deficit in the carrier rolls. The law fixes the amount, the last penny that I can take; and I cannot take the money from one fund to meet the extraordinary demands that a business emergency may put on another.

"Well, now, what are the facts that are responsible for the present embarrassed condition of the Post Office Department? Estimates were made last year, and I am not going to blame anybody because nobody should be blamed; there is no blame attached to any one. Nobody foresaw the extraordinary increase in the volume of business that the Postal System has got to carry. The Department went to the budget, the budget gave us what we asked; it went to Congress and Congress appropriated, but bear in mind, gentlemen, one thing: (As I say I am not complaining of Congress, very naturally and very

properly; I have just got through a term in Congress myself, and I am not unmindful of the difficulties of the members of Congress. They are expected to hold down public expenses. If they do not do it, the public will make the welkin ring with the charges of a billion dollar Congress. It has not been long since we heard of the imprecations on a billion dollar Congress. If we could get back to a two-billion dollar Congress today, we would consider ourselves getting along with the least possible amount with which we could do business at all.) But they went to Congress and asked Congress for so much money that the appropriation committees had to say, in the proper exercise of their discretion. "Pull them down! Pull them down!" I was not there—all this occurred before I was Postmaster General, and whether the situation is good or bad, I have no one to blame for it.

"But all that being the case, the estimates were based on the volume of business that were then seen to meet the demand. Now, what has happened? The reports from the 50 largest post offices of the country for the month of January show an increase in business over the corresponding month of the year before or 18.99 or 19 per cent, that came in the way of increased business. It is because your business is better, and the business of the farmer out in the West is better, and everybody's business is better. At least that is the story that is told by the increase of practically 20 per cent in the volume of matter that the postal service is required to transmit. Now, that is the story; that is the fact of the matter.

"Now I with you very well realize that clerks are being called upon to exert their very utmost endeavor, and I want to say to the business men here assembled that I want to take my hat off to the Letter Carriers' Association, whose secretary sent out a circular to the men, in which he said: 'We realize the condition the post office is in; now let's get together and do every single possible thing we can to assist the Postmaster General and the Department in this very trying situation in which they find themselves.' I want to publicly express my thanks and the thanks of the Department to an organization that showed that degree of patriotism and willingness to help out in a most difficult situation. That is the situation; that is our trouble. As I say here, I want you to understand that it is not that the Government is bankrupt. Let this be understood. Some criticism has appeared in the newspapers—I am not complaining of it; but they do not understand what the purpose of the Department is—and say that they all know about a policy to make the Post Office Department make its income and its expenses balance, while there is no such policy. So long as this administration has charge of the Department there will be no such policy. I believe that the public is entitled to the very best service that ingenuity, skill and experience can give, and that we are going to give. But remember all the time that a government institution must go to Congress for its appropriation; a certain sum must be granted by the budget, and when that is granted it is fixed for the year. The Department cannot overdraw.

"Now, owing to these unforeseen conditions, that is the fix in which we are today, and in so far as it indicates a very laborious experience and a tremendous growth in the business of the country, it should be a source of national gratification, as I am very sure it is.

"Now, some things we have had to do. Here is the matter of overtime to the clerks. We had to stop overtime. Why? Because of this condition which every one of you has seen we have got to know what our expenses are. We have got

to know what bills we are going to be called upon to pay. Now, when a man is called on for overtime, you do not know how much the overtime is going to be. You do not know whether he is going to work one hour over time, two hours or three hours. It gets away from you and you can never tell what anticipated amount is going to come in and all to be settled at pay day. They do not get extra money for overtime; it is simply that we have got to know what the bill is. We know that we have a certain number of carriers who are regularly employed. The total number is so many in the entire country. They are paid at a specified rate and to know what that rate is, you know what the number is and you know what the bill is going to be. But when a certain number—nobody knows how many—are employed over for a certain number of hours—and nobody knows how many hours—the first thing you know a bill is brought in on you and it dawns upon you that the appropriation is exhausted and you have a deficit. Last Christmas business was so very much greater than the ordinary Christmas business that there was a tremendous amount of overtime. It was necessary—nobody is complaining of that. I am not complaining of this condition; I am simply asking you to realize what our difficulties are, and, if you sympathize with us, indulge us as much as you can while we are doing the best we can. We are doing the best we can; that is what I am compelled to say to you under this very embarrassing situation.

"I know that possibly there must be some curtailment in the mail. I will promise that it will be just the very least that is absolutely necessary. We are all doing the best we can, and as a business man I want to say one word further—the Post Office Department did not create this system of carrying things on; we are no more responsible for it than you. We are creatures of conditions—we are governed by laws just the same as everybody else and by statutes. But all human agencies some time fail. In my judgment there ought to be some sort of a reserve fund set up. Now that we have this budget system—I am in favor of the budget system; I voted for it and believe it is a great and a good thing, and, on the whole, taking the administration of public business into account, that we are going to save a great deal of money through the operation of the budget system. I am just as much in favor of it today as when I voted for it; but there are limits to all things. I think that there ought to be created some sort of a reserve fund, upon which the Postmaster General may draw in case of such an emergency as this; of course with the approval of the Director of the Budget, and, of course, with the further approval of the President of the United States. If we had such a fund as that, I would have no trouble at all. The Post Office Department would have no trouble at all.

"I want to pay a compliment to your local postmaster, Mr. B. F. Woelper, Jr., who thoroughly understands the situation. He is thoroughly familiar with the Department and its troubles, and I wish every Postmaster in the country had the same grasp of it as Mr. Woelper has and the same disposition toward cooperation. I commend him to the Baltimore public; this he deserves.

"Two or three things I want you to bear in mind. First: There is not going to be any undue curtailment of the mail service to the public. That service belongs to the public; the public, in my belief, is willing to pay all it costs for good postal service—it does not make any difference what that is. There is no policy to make ends meet, to make the budget balance in the Post Office Department. There will be no such policy so long as this administration is charged with its affairs.

"It will only be until the 30th of June until the new appropriation comes in, and I say another thing to you, I am not going to let this condition get bad even if I have to do some-

thing out of the ordinary. I am not going to allow a fatal collapse of the postal service in the country. Nothing of that kind need be anticipated."

### Details of Addition to Southern Paper Company Mill at Kreola—Buildings and Machinery to Cost \$1,500,000.

Pascagoula, Miss.

*Editor Manufacturers Record:*

One of the most important improvements being made along the Gulf coast is the new addition to the paper mill of the Southern Paper Co., at Kreola some 5 miles east of Pascagoula. The original mill was built in 1912 and a full account of it with illustrations appeared in the *MANUFACTURERS RECORD* at the time. The additions will be as large as the old mill, and buildings and machinery will cost \$1,500,000, work of laying the foundations having already begun. One of the new paper making machines will make paper 168 inches wide and will cost \$240,000, and with its electric drives will weigh 650 tons; 2 new units for the "recovery room" cost \$17,000 each and will weigh 100 tons, and new boilers weighing one hundred tons will cost \$50,000.

The capacity of the mill will be increased from 45 tons to 100 tons daily, and when completed it will give employment to six hundred men. Creosoted spiling 30 feet long will be used for the foundation, and from 800,000 to 1,000,000 brick, with 150 men engaged in the work of construction.

The plans for the new mill were drawn by Geo. J. Hardy consulting engineer, New York, and the contract was let to Geo. J. Glover of New Orleans, La. E. H. Mayo of Kreola is the general manager of the plant.

Some two years ago the Southern Paper Co. built a new office and also a boiler room with a smoke-stack 225 feet high and in which 650 tons of tile were used exclusive of cement. The new boiler house or power plant will have another smoke-stack like the present one.

It has been suggested that the public schools along the Gulf-coast give excursions to the school children to Kreola that they may visit the paper mill and see one of the marvels of modern chemistry and mechanical invention. A piece of pine wood is fed to a "hog" in one end of the mill and comes out of the other end a high grade paper.

CHARLES E. CHIDSEY.

### Texas Sugar Refining Company Awards Contract for Plant—First Unit to Have Daily Capacity of 1,000,000 Pounds, with Provision for Ultimate Enlargement to 2,500,000 Pounds.

Texas City, Tex.—General contract has been awarded to John Monks & Son of New York for the construction of the refinery to be erected here by the Texas Sugar Refining Company. The first unit is to have a refining capacity of 1,000,000 pounds, the building to be of steel, concrete and brick, 8 stories, with its own dock and wharf facilities. The plant will be built on a scale to permit the ultimate enlargement to 2,500,000 pounds daily.

The Texas Sugar Refining Company is capitalized at \$5,500,000, with Col. H. B. Moore of this city as vice president. E. P. Eastwick of New York is the engineer in charge of construction and is the designer of all buildings, machinery and other facilities.

Contract for all structural steel required for the plant was recently awarded to the Ingalls Iron Works Company of Birmingham. This includes the boiler house, engine room, machine shop, pan shop, packing house, filter house, office building, wash plant, refined sugar warehouse, raw sugar warehouse and cooperage plant. Joubert & Goslin of Birmingham have the contract for refining machinery, melters, filtering machines and other equipment.

## A Southern Banker Before a Northern Audience.

A Florida banker, Mr. J. A. Ormond, cashier of the Citizens State Bank of Marianna, and a member for Florida of the Executive Committee of the American Bankers Association, recently made an extremely interesting address to the Sheet Metal Ware Association of the United States and Canada, held in St. Augustine.

When telling broadly of the resources and development of the South as a whole, Mr. Ormond drew very largely upon the Blue Book of Southern Progress, issued by the MANUFACTURERS RECORD, giving full credit to that publication stating that he was quoting freely from the MANUFACTURERS RECORD and from the Blue Book, and on this point he said: "It is earnestly recommended that unbiassed study be given the subject, with the aid of that splendid champion of the South, the MANUFACTURERS RECORD, and its magnificent array of facts concerning the South, set forth in its recent publication, the Blue Book of Progress of the South, both of which have been freely quoted in the preparation of this paper."

Without repeating the statements taken from the Blue Book and the MANUFACTURERS RECORD in regard to the South, two features of Mr. Ormond's address may be given as of special interest. One is, where he tells of the development of Florida, through the vision of Henry M. Flagler. The other is, a sharp criticism as a banker of the results, due to Southern legislators, of unwise railroad legislation, and unwise management of the Reserve Board. Mr. Ormond's address attracted so much attention that he was asked to repeat it in Boston.

As a Florida-born banker, regarding the South as a whole, Mr. Ormond's views on the subject mentioned are of interest.

The main points of these features are as follows:

"More than four hundred years ago a Spanish nobleman, old and broken in health, sailed from the West Indies on an expedition in search of the fabled Fountain of Youth. He landed on the Florida coast, near the present site of this city, being the first white man to discover the mainland of America. He found a forbidding and low lying shore line covered with scrub and tangled wildwood, the back country a waste of swamp and marshland. Disappointed in the fruitlessness of his search he shortly left never to return.

"Less than forty years ago an elderly Yankee visited the city founded by the unfortunate Spaniard, then small and unprogressive, content with the distinction of being the oldest settlement in the United States. He found the same sand dunes and scrub and swamp and savannas as had the first discoverer.

"He too was seeking the Fountain of Youth, and with the millions at his command he touched as with a magic wand the uninviting scene and quickly transformed it into a fairyland. Here he planted a great hotel and named it in honor of his famous but unfortunate forerunner. Thence southward along the inhospitable coast he pushed his railroad, connecting the scattered groves and fishing villages and ever and anon planting another great hotel and finally building for himself a palace upon ground built up in the midst of what had been a dismal morass.

"He discovered the Fountain of Youth and lived to see fulfilled his dream of the playground of America on the coral formed East Coast of Florida; cities to spring up almost overnight where before the wily Indian and the denizens of the forest held undisputed sway; abounding health and wealth to attend upon those who were wise enough and fortunate enough to follow in the wake of his surveyor and his engineer, and finally to himself receive the well earned title of pontifex maximus of all the ages of the world by scorning the advice of his experts and by the power of his will and his wealth spanning the sea with a

railroad that on arches of steel and stone leaps from islet to islet in the most impossible undertaking ever conceived by the mind of man.

"You have chosen well as a meeting place on your first visit to Florida the world famed hostelry which bears the name of Juan Ponce de Leon, the first discoverer, built by Henry M. Flagler, the real discoverer of Florida.

"The native of Florida to whom you have accorded the honor of addressing you takes pleasure in bidding you welcome to all the joys and beauties that bounteous nature and prodigal men have provided and expresses the hope that before your return to your homes in the land of ice and snow you visit every part of the state of perpetual sunshine and perfect climate where beauty and opportunity are inseparable companions.

"Florida, oldest in history is newest in opportunity. Here with each recurring season come a vast multitude fleeing from the rigors of the northern winter. Like migratory birds they come, by private car, Pullman car, day coach, limousine, touring car and Ford; by palatial yacht, coastwise steamer, houseboat, motor boat and airplane. They fill to overflowing the great tourist hotels in which Florida abounds; they crowd the tin can tourist camps, reveling in the freedom of the great outdoors under the sub-tropical sun. Golf and polo, hunting and fishing, checkers and pitching the horse shoe afford amusement to all according to their several inclinations and ability, while Boreas holds sway in the bleak north land and coal bills play havoc with those so unfortunate as to remain behind. And Florida receives them all with open arms, capitalizes her climate and her hospitality and counts the tourist crop her one best bet.

"Among the multitude are many who come, who see, and who are conquered by the lure of the land of perennial spring. And thereby arises the business of real estate which is the state's second greatest industry.

"'Back to the land,' 'own your home,' 'be your own master,' 'ten acres and freedom,' 'they are not making any more land,' and similar selling phrases appeal alike to the East side tenement dweller and the retired capitalist. Hence, palmetto flats and blackjack ridges sell for the price of Iowa prairie land and beach front lots with riparian rights command per front prices reminiscent of Fifth Avenue and Forty-Second Street.

"But let no one imagine that Florida is content to be the nation's playground or to live solely off the visitors. The same matchless climate and proximity to the center of population that makes the state the mecca of the tourist makes in the country's natural hothouse where every month of the year are produced the vegetables and fruits that please the eye and delight the palate, and where by reason of the monopoly which is enjoyed by most of these products and the priority enjoyed by all, a never ending stream of gold is assured.

"The variety of its products is comparable only to the diversity of its soil and its scenery. The classic red clay hills of the north end of the state are the foothills of the Blue Ridge chain and with the great rivers that cross the western panhandle on their way from the mountains to the gulf tie the state to the continental area. The scenic ridge section of the central peninsula, dotted with silvery lakes, connects the great agricultural belt of the north and west by a variegated chain of groves and gardens with the vast reclaimed territory in the south known the world over as the Everglades of Florida, greater by far than the Zuyder Zee, richer than the delta of the Mississippi or the valley of the Nile, the most productive land on the face of the earth. Thence the palm fringed islets of the Florida Keys, like an emerald chain, link the state with the tropical islands of

the West Indies. From the Perdido River to the Straits of Florida is a thousand miles by train which in passing presents a motion picture of kaleidoscopic beauty.

"With no spot more than one hundred miles from a wave washed shore of ocean or of gulf, assuring an equability of temperature unequalled elsewhere in America, it is small wonder that the state is growing faster than any other in wealth and population, that its coast is a succession of rapidly developing ports, that its cities are the marvel of the age in growth and in civic improvement, that its thousands of miles of asphalted highway are the joy of the motorist, and that while the rest of the country lay under a pall of financial depression, Florida, except for its strictly agricultural section, enjoyed an unchecked prosperity and was notable as being the nation's one white spot.

"For this situation the South has only itself to blame. A Southern congressman introduced the legislation that granted the terms of the railway brotherhoods when they threatened the life of the nation upon the eve of our entrance into the world war, thus establishing a precedent for all the arbitrary demands that have since been made by union labor. Under the administration of a president of Southern blood a Southern cabinet member as director general of the railroads subsidized railway labor by the payment of princely salaries for inferior performance of usual tasks while better men died in the trenches in France who drew from the same government a smaller monthly wage than the daily pay of many railway operatives. 'If this be treason make the most of it'. And yet men have lost their farms within fifty miles of this spot because the potatoes they grew to help America feed herself in response to the appeal of this same official rotted in heaps in the field for lack of a price that would pay the freight to ship them.

"A Southern Senator and a Southern congressman secured the enactment of the greatest piece of financial legislation ever adopted and during the most perilous years of the fiscal history of the country the system they created was headed by a Southern banker. The system made possible the successful financing of the war for the nation and its allies and it saved the great banks of the cities in the crisis that followed the order that post war inflation must cease. But it permitted the failure of country banks by the hundreds, the bankruptcy by the thousand of those who dealt in country commodities and the ruin by the million of the farmers themselves. Obviously, therefore, neither was the system perfect nor was it operated without error. However, whenever a suggestion has been made that the system or its operation might be improved it has been met with a united demand from those in charge and those whom it had most benefitted that the system be kept out of politics. The success of the much maligned 'farm bloc' in congress in having one representative of agriculture, the nation's basic industry, placed upon the Federal Reserve Board among a membership of eight, representing every other known interest aroused a storm of protest from the bankers of Wall Street and their satellites, though at the same time these same beneficiaries of the system as it was, were conducting the most amazing though unsuccessful campaign for the reappointment of the man whose policies, however sound from a reserve standpoint, had permitted the collapse of the country's greatest business.

"The recovery of agriculture and the restoring of the purchasing power of the farmer awaits the establishment of adequate marketing facilities either through co-operation or otherwise, and the readjustment of the arbitrarily mal-adjusted elements in the economic system of the nation. Conversely, the return of business to normalcy awaits the re-entrance into the market for manufactured articles of the biggest and best buyer with a capacity for paying for his purchases out of his earnings instead of out of the proceeds of a mortgage, either real estate or chattel. Mean-

time, credit, however necessary, is a palliative, not a cure.

"Turning in conclusion for a brief glance at the industrial development of the South in recent years we find a more pleasing picture. The influx of capital and the vision that many capitalists have seen of the South as a great industrial section makes its industrial future the most nearly certain thing in a present mass of uncertainties. An all year operating season, proximity to sources of production of raw materials, absence of labor problems and an abundance of water power readily converted into terms of electrical energy is a catalog that omits few of the essentials of industry.

"Not now but soon must New England and the Middle States surrender their three-quarters of a century of industrial leadership to the South which formerly held it. Already in the case of textiles the South is rapidly forging ahead to the extent that just the other day the statement was made by a manufacturer of cotton cloth that not another spindle will ever be placed in New England. Speaking of the labor question alone he said that the cotton mills of the Carolinas are employing the second generation of the purest Anglo-Saxon people of America, the mountaineers of the section, who have been made happy and contented in comfortable homes and who have become artists in the operation of the spindle and the loom; whereas in one New England mill the rules had to be printed in eleven languages in order to reach all the operatives and then the laborers who spoke the language that chanced to be printed at the bottom of the card threatened a strike to protest against the discrimination, resulting in the adoption of the policy of pasting upon a wheel the several copies printed in the various languages so that each could place his language at the top. Even the traveler by train must note the growth in number during the past few years of the great familiar brick buildings with spacious, well kept lawns resembling so much in appearance and in occupancy colleges for young women but which are cotton mills in Georgia and the Carolinas and tobacco factories in Virginia and Kentucky.

"This study of the agricultural, industrial, and economic condition of the South has been prepared without bias or prejudice, based upon knowledge acquired largely at first hand, and has been presented to you upon your invitation in the hope that your sympathetic interest may be enlisted to the end that you will catch the spirit of the South that was and enter with assurance into the life of the South that is, thereby contributing to the certainty of the greatness of the South that is to be."

#### Paper Products from Stumps of Southern Pine.

New York, April 10—[Special]—A feature of the first Paper Industries Exhibition, in progress here at Grand Central Palace, in connection with the annual convention of the American Paper and Pulp Association, is a display of paper products made from the South's pine stumps. The J. H. Wallace Research Laboratories have perfected a process by which the stumps and the other waste parts of pine trees may be converted not only into paper pulp of a good grade, but also into valuable by-products such as turpentine, pine oil, and rosin, besides tar oil and gasoline.

It is estimated that there are 4,000,000 acres covered with these pine stumps in the South, and that they will be worth at least \$50 a cord for the manufacture of pulp. Their removal will also make vast areas suitable for cultivation that are now lying entirely idle. The exhibit is characteristic of all such shows held in New York City the last few years, in that much attention is paid to the raw materials of the South, as source of future development.

The paper men are discussing forest conservation, and the keynote of their meeting is that radical measures must be taken to preserve remaining sources of pulp. The saving of waste paper as raw material for pulp making is urged.

[Anniston (Ala.) Star, April 8, 1923.]

# EDMONDS TALKS OF ADVANTAGES IN THIS STATE

Some Early History Related by Distinguished Editor  
of Manufacturers Record

## ALABAMA NOT GROWING AS FAST AS IT SHOULD

WITH UNEQUALED RESOURCES HE SAYS THIS STATE  
IS LAGGING BEHIND; JAMES MITCHELL HAD  
GREAT VISION.

Daytona, Fla., April 7.—[Special]—Richard H. Edmonds, editor of the Manufacturers Record, of Baltimore, in discussing gray ore deposits in Talladega county, Ala., with a representative of the Anniston Star became reminiscent and elaborated on some of the early industrial history of the state, pointing out some of the advantages and disadvantages of Alabama, as he sees them. By request of the representative of The Star, Mr. Edmonds dictated the following statement for publication:

Referring to the recent letter from the Bureau of Mines, to the effect that while investigating the Alabama mineral region the Talladega county ores would be studied, he said the fact should not be overlooked that in olden days there was a spirit of very bitter rivalry among some iron interests of Birmingham against the Anniston district. "I often discussed the matter with Mr. Samuel Noble when he was building his coke furnaces," said Mr. Edmonds, "and he referred many times to the bitter spirit of opposition to the development in Anniston of iron making on the part of some Birmingham people. At that time Birmingham iron interests were apparently dominated by the idea that there was not room enough in Alabama for more than one iron-making center, and the criticisms which were made against Anniston were made with equal force against Florence, Sheffield, Gadsden, and other points.

"A similar spirit existed in those days between individual iron interests in Birmingham. I once sat at a dinner in New York attended by a number of leading bankers who were thinking of investing on a large scale in the Birmingham district. Two Birmingham iron officials of high position were present, almost at opposite ends of a long table. I was seated so that I could hear both of them as they talked to the bankers on their right and left. One of these officials praised the financial strength and resources of his own company very highly, but criticized with equal force the resources and financial strength and the operations of the other company. Official No. 2 with equal emphasis praised his company, but likewise with equal force attacked the financial strength and resources of the other. After the dinner a mutual friend said to them, 'Do you not appreciate the fact that if each of you criticizes the properties of the other the bankers here will have no faith in the value of any Alabama mineral property?'

"That spirit lived for many years among the iron producing companies of Birmingham, and I think did that city and the whole state an infinite amount of harm. To a very large extent I think the Birmingham people have outgrown that narrow way of considering each other's properties, and they have also learned to take a broader view of the development of the whole state. But these personal and community jealousies should never be permitted to exist if Alabama is to attain unto the fullness of its potentialities.

"I once heard an Anniston business man declare that he did not believe the stock of the Tennessee Coal, Iron & Rail-

road Company was intrinsically worth ten cents on the dollar. Fortunately the spirit of criticism so dominant in Alabama years ago has to a large extent died out. The people of Birmingham, and Anniston, and Gadsden, and Florence, and Sheffield have to a large extent come to realize that in the development of the whole Alabama mineral district there is increasing prosperity for all.

"Birmingham has now attained a position of pre-eminence in iron and steel making which should make its iron and steel interests take an active part in the development of all the mineral resources of the state. I remember very well that in the early days of cotton mill development in the South I was sometimes vigorously criticized by cotton mill officials who were opposed to the building of any more mills for fear that a larger number of mills would lessen the supply of labor. The cotton mill people have long since outgrown that narrow view. There is one county in North Carolina which now has 104 cotton mills, and all of them are benefited by the general development which has enlarged the prosperity of that whole section and drawn an abundant supply of labor.

"It would be better for Birmingham and better for all Alabama if every interest in the state would unitedly work for the development of all of the iron ore resources of the state, whether these ores be located near Anniston, or Gadsden, or Florence, or Sheffield, or Tuscaloosa or elsewhere.

"Pittsburgh's dominance in the world's iron and steel trade is not due wholly to the iron and steel furnaces located in Pittsburgh proper, but to the development in the whole Pittsburgh district of industries which add to the prosperity of that entire section. Such concerns as the Alabama Power Company, with the vast work which it is carrying on in every part of Alabama, could very well afford to take an active interest in co-operation with local communities in the study of mineral resources in order that their development might inure to the benefit of the whole state and thus necessarily to the benefit of that company and to all others identified with the progress of Alabama.

"The time has long since passed in Alabama for local jealousies. North Carolina has learned that lesson, and I believe there is less of local jealousy between towns and cities in that State than in almost any other State with which I am acquainted, and the result is that North Carolina is today, I believe, making greater proportionate progress than any other state in the Union.

"Alabama was for a long time seriously injured by petty personal and community jealousies. Anniston criticized Birmingham, and Birmingham criticized Anniston. Gadsden criticized Birmingham and was criticized by Birmingham. Florence and Sheffield were for a while vigorously attacked, directly and by innuendo, by people in other sections of the state. When the state of Alabama decided to make Mobile a state port and spend large money in its development it gave an illustration of an entirely new spirit which was abroad in the state. That spirit should dominate every man in Alabama. No man should ever again dare to criticize or denounce any part of the state, or any resources of the state, without a direct personal knowledge of what he is saying. I have myself heard, sometimes directly and sometimes indirectly, of many criticisms from the people in one part of the state of those in another part which were unworthy of patriotic citizens and which showed a narrow spirit of jealousy in direct opposition to that spirit of broad patriotism which should prevail everywhere.

"I am often reminded of a talk I had with Mr. James Mitchell, the first president of the Alabama Power Company, when after long and patient study of the resources of the state viewed from every standpoint he took down a map, and then with an amazing display of knowledge and enthusiasm he claimed that Alabama was the center of the most richly endowed region on earth. He had studied this country and he had studied other countries, but nowhere else on earth, said he, was there such a combination of advantages for agricultural and industrial development as in the country of which Alabama is the center. He began the campaign for the development of the Alabama Power Company on that basis, and that is the spirit which must dominate every iron and steel company and every other great corporation in Alabama if its officers are to be worthy of the position they hold and the responsibility which rests upon them.

"Unless every officer of every corporation in the state stands ready at any moment to unite in every good work for the advancement of every section of Alabama, he is falling short of his responsibility to the state, and therefore is not a good citizen.

"I agree fully with the view expressed by Mr. Mitchell, to which I have referred, in regard to the marvelous combination

of advantages of Alabama and the territory tributary to it. It would seem impossible for the human mind to conceive of a greater combination of resources and advantages than that possessed by Alabama and the adjoining states. And yet Alabama is not making the material progress which it should make with these natural resources at hand. North Carolina, as I have just said, is beating Alabama, and is beating, I believe, every other state in its relative growth. It is carrying on a road-building campaign involving \$120,000,000, state, county and federal work. It is spending about \$20,000,000 on the enlargement of its college and university buildings, and everything else in the state is being pushed forward on the same large scale. Cotton mills are going up in every direction and existing mills are being enlarged.

"Alabama has just as great advantages for cotton manufacturing, viewed from every standpoint I believe, as North Carolina. North Carolina has no iron and steel industry, nor has it the resources on which to build one. In that respect it falls far short in natural resources of Alabama. But Alabama's iron interests are not being supplemented by any very large development of its cotton mill interests.

"High Point, N. C., is the second place in the Union for the manufacture of furniture, offering a vigorous rivalry to Grand Rapids. With more than a hundred chair and furniture factories in the state, this industry is becoming one of the outstanding features of North Carolina's industrial life. But North Carolina is not better located for furniture making than is Alabama.

"And so I might point out several other things in which Alabama is not quite keeping step with its natural resources, and I am inclined to believe that some of this is due to former petty jealousies between different communities and different parts of the state. The action of the state in regard to developing Mobile as a great state port should be an omen for good. It should result in blotting out every local prejudice and creating on the part of the people of the whole state an enthusiasm for every section of the state.

"In Alabama it should be regarded as discreditable to a man's judgment and character for him to attack directly or by innuendo any other part of the state.

"Going back to the days of Sam Noble, as broad and big a man as he was, he had very strong prejudices against Birmingham, and I often heard him criticize Birmingham. I do not know whether Birmingham or Anniston began that criticism, but I rather think Birmingham started it when it had not fully learned the strategic strength of its incomparable location. At any rate that that spirit of criticism existed for many years is known to every man familiar with the state 25 or 30 years ago. I hope there is no evidence of it at the present time, but I am merely using the painful conditions which existed to preach a little homily as to the need of state pride and state enthusiasm and individual co-operation for every part of the state in line with the policy which has within the last few years wrought such miracles in North Carolina, and can be made to work miracles of the same kind wherever put into effect."

### Southwest in Better Financial Condition—Has Liquidated Two-Thirds of \$300,000,000 War Finance Loans.

Austin, Tex.—Fred Starek of Washington, D. C., managing director of the War Finance Corporation, who has finished a tour of Texas investigating business conditions, states that the Southwest is in much better financial condition than it was a year ago.

"Texas farmers and stock raisers alone borrowed through their home banks \$27,000,000 only fifteen months ago from the War Finance Corporation. Today \$17,000,000 of those loans have been liquidated," he said.

"The financial situation in Texas is exceptionally bright, and the fact that the state has repaid in fifteen months \$17,000,000 of loans totaling \$27,000,000 is proof of the soundness of the situation. Crop prospects give it a bright future.

"The states of the South and Southwest have borrowed \$300,000,000 from the War Finance Corporation since 1921; and of that amount two-thirds has been repaid. The Finance Corporation lends money on farms and ranch products, and 250,000 ranchers and farmers have benefitted by the loans. The loans were made through 4500 banks"

### CONTRACT AWARDED FOR BALTIMORE & OHIO \$5,500,000 GRAIN ELEVATOR.

M. A. Long Company Successful Bidder on Locust Point Structure—Plant Will Have Capacity of 3,800,000 Bushels.

Contract has been awarded to the M. A. Long Company of Baltimore for the construction of the new grain elevator to be erected at Locust Point, Baltimore, by the Baltimore & Ohio Railroad Company at a cost of \$5,500,000, including pier improvements and yard changes. As detailed in the MANUFACTURERS RECORD last week, the elevator will have a capacity of 3,800,000 bushels, of which the storage tanks will hold 3,000,000 bushels and the workhouse bins 800,000 bushels. Provision will be made for additional storage tanks for 6,000,000 bushels. The shipping capacity will be 150,000 bushels per hour.

Construction will be under the supervision of H. A. Lane, chief engineer, and L. P. Kimball, engineer of buildings, both of the Baltimore & Ohio Railroad Company, with the co-operation of C. E. Wood, general foreman of the company's Locust Point elevators at the time they were burned. Plans and specifications for the elevator and shipping terminals were prepared by the John S. Metcalf Company of Chicago. L. A. Stinson of Chicago is the consulting engineer.

### Notable Activity at Shreveport.

Shreveport, La. April 10—[Special]—This city is in a most healthy business condition, with trade active in all lines and everything giving the impression of Shreveport being one of the liveliest places in the Southwest at this time.

A general increase in all lines of business has occurred in the last six months, and being the center of an immense oil and gas field has contributed much. Bank deposits on January 1, 1923, were \$44,846,529, and bank clearings for 1922 were \$225,783,778. One hundred and fifty oil and gas companies are now operating and 20 oil well supply houses, also eight oil refineries.

The latest roads completed make a total of 150 miles hard-surfaced in this district. Prosperity is seen on all sides.

### Contracts Let for \$250,000 Jackson Building.

Asheville, N. C.—Contracts have been awarded by L. B. Jackson & Co. for the erection of the 14-story office building which they will erect on Pack Square in this city. Z. V. Creasman of Asheville was awarded general contract and the Asheville Supply and Foundry Company the contract for steel work, the total of these being \$202,000. Contract for the installation of two elevators was awarded to the Otis Elevator Company. The ultimate cost of the building is estimated at \$250,000.

Dimensions of the structure are 27 by 61 feet, the construction to be of steel and hollow fireproof tile. A steam heating plant will be installed. Ronald Greene of Asheville is the architect-engineer.

### Contract Let for Hospital Buildings.

General contract has been awarded to the North Eastern Construction Company of Baltimore to erect a group of four buildings for the epileptic colony at the Springfield State Hospital at Sykesville, Md. Each will be about 100 by 40 feet, 2 stories, of brick and concrete, with terra cotta and concrete floors and slate roof. The total cost of the structures, exclusive of equipment, will be \$200,000.

Contracts have also been awarded to the Heat & Power Company for heating; H. E. Crook Co., Inc., electrical work, and Harry L. Black & Son for plumbing, all of Baltimore. Henry P. Hopkins of Baltimore is the architect.

D. A. MCKINNON, PRESIDENT  
C. N. HORNE, VICE-PRESIDENT



"THE BANK OF THE CORNER"



J. A. ORMOND, CASHIER  
A. I. NEARING, ASST CASHIER

## THE CITIZENS STATE BANK

"THE BANK OF BETTER SERVICE"

CAPITAL \$30,000.00

SURPLUS \$7,500.00

MARIANNA, FLORIDA. March 27th, 1923.

Manufacturers Record,  
Baltimore, Md.

Gentlemen:

Recently I had occasion to make a study of the agricultural, industrial and economic history of the South preparatory to making an address on Southern Economic Conditions before a distinguished convention of Northern manufacturers.

Learning through the Manufacturers Record of your publication of the Blue Book of Southern Progress I had you to send me a copy. My first casual examination of the book proved it to be such an interesting and interestingly arranged compilation of Southern facts that I read it through at the first sitting, subsequently using many of the things that I learned in it, substantially in the language in which I found them, in my address which was well received by the solid Northern audience. Many expressed themselves afterward as having learned more about the South than they ever knew, and I might add that I did the same thing.

I consider the Blue Book of Southern Progress indispensable to every Southern business man and necessary to every sincere student of the South.

Yours very truly,

*J. A. Ormond*  
Cashier.

(MEMBER FOR FLORIDA  
EXECUTIVE COUNCIL  
AMERICAN BANKERS ASSOCIATION)

The Manufacturers Record invites every business man in the South to consider the facts presented in the foregoing letter and to order now for delivery as soon as issued, as many copies of the 1923 edition of the Blue Book of Southern Progress as he can profitably use for his office, his family, and his business correspondents.

**Prices are:**

1000 or more.....25 cents per copy  
500.....30 cents per copy

Less than 500.....40 cents per copy  
1 to 10.....50 cents per copy

Your co-operation in the distribution of these important statistics about the South will help to make this section more widely known and appreciated.

## A WORLD MINERAL WONDER.

### A Texas Hill Containing Many Rare and Valuable Minerals.

Kingsland Tex.—[Special]—Situated eleven miles north of here is Barringer Hill, widely known as the greatest mineral wonder of the world. This is the verdict of many mineralogists who have visited the spot and investigated its contents or resources. From Barringer Hill have been taken more kinds of rare minerals than from any other one place of corresponding size in this or any other country, it is stated.

Barringer Hill was discovered 45 years ago and since that time it has produced an enormous quantity of various kinds of minerals. The first specimen which was found on the surface was of glossy black appearance. It came into the hands of William E. Hidden, a mineralogist of Newark, N. J. He made an analysis and his discovery made him doubt that it came from Texas. It was found to be gadolinite. However, a man was sent to Texas the following year to investigate, and he reported that Barringer Hill had produced the specimen and that there was much more of it there. Yttria and erbia are the principal constituents of gadolinite and the latter was put through a process whereby it was made to compose the glower in the Nernst incandescent electric light lamps, which were formerly in general use. The glower was the fine wire in the incandescent globes which produced the light when the electric current was turned on.

It is a mineral which has been known about 100 years and no pieces over four and one-half inches in diameter had ever been discovered until Barringer Hill produced larger specimens. At this remarkable place it was found in cuts weighing as high as 73 pounds, that is, a single mass of it of that weight, while it has been taken out in groups of crystals weighing as much as 200 pounds. This was considered most remarkable, and had never been witnessed before. The Texas quarries at Barringer Hill produced more gadolinite than all of the other places in the world combined. It is a jet black mineral, though it is really green when thinned.

Barringer Hill does not confine itself to gadolinite, but Mr. Hidden discovered five minerals there new to the scientific world, all of which he named. These are yttrialite, composed of 46 per cent yttria, 12 per cent thoria and other substances; rowlandite, the principal part of which was 47 per cent of yttria; thoro-gurhite, composed mainly of thoria, 43 per cent, and 22 per cent of uranium nivenite, largely made up of uranium, 65 per cent, 10 per cent of oxide of lead and a small per cent of yttria and thoria, and the last was mackintoshite, uranium and thoria being its principal parts, and having a specific gravity of  $5\frac{1}{2}$  per cent.

Barringer Hill is also famous for its monstrous crystallizations of feldspar and quartz; there are individual crystals of feldspar from five to ten feet in length, and it gave one crystal of quartz, 43 inches in height, 28 inches broad, and 15 inches thick and weighing nearly 1000 pounds. It is one of the largest ever found and is now in the museum of the University of Texas.

Another freakish formation at Barringer Hill is the pegmatite, or granite of monstrous particles. Where ordinary granite is composed of minute grains, pegmatite has grains of unusual size, often being several feet in diameter. Granite is composed of feldspar, quartz and mica in fine to microscopic grains, while pegmatite is of like composition, but the component parts are gigantic in size, and thus the minerals of microscopic character in common granite occur in microscopic grains in pegmatite.

A pretty specimen which Mr. Hidden treasured was a rich

royal purple amethyst. The hill has produced some fairly good specimens of amethyst. The specimen was quite clear in its bed of quartz and was cut and mounted.

Still another mineral found in the quarry at Barringer Hill is fergusonite and it occurs in three stages of alteration. The purest was a specific gravity of 5.65 and contains 42 per cent of yttria, while the tri-hydra has a specific gravity of 1.5 and contains 32 per cent of yttria, and some still higher.

Later another mineral discovered in the quarry has been found to be molybdenite, a sulphide of molybdenum used in alloying steel. Some chunks weighing two pounds were discovered.

Barringer Hill is unique in that it is the only place the world over where the gadolinite and yttria specimens are worked for exclusively. In other places it is a by-product, notably in the feldspar quarries of Norway and Sweden.

An interesting feature of the formation in the quarry is the great radio streaks extending in several directions some seven and eight feet in length. These radio streaks appear through and across the entire mineral substance for the distance stated, giving a kind of halo appearance. These radio streaks might be construed to indicate the presence of radium, but no trace of radium has been obtained.

### \$1,250,000 Cement Plant for Fort Worth—600 Acre Site Secured.

Fort Worth, Tex.—Announcement has been made by officials of the Southwestern Portland Cement Company which operates plants at Los Angeles and El Paso, that construction of a \$1,250,000 cement plant would be started in Fort Worth within 90 days. A site of 600 acres has been acquired. The new plant will have an initial capacity of 2500 to 3000 barrels of cement per day, and will employ about 225 men. It is stated that the wet process of manufacture will be used which has the effect of eliminating dust and dirt.

Officers of the Southwestern Portland Cement Company include C. Leonardt, of Los Angeles, president, C. C. Merrill, vice president; O. J. Binford, secretary and general superintendent. R. H. Coglan is the chemical engineer.

### Catholic University to Build \$400,000 Stadium.

Washington, D. C.—As a preliminary step toward the construction of a \$400,000 stadium here for the Catholic University of America, an athletic committee with Arthur D. Maguire of Detroit, Chairman plans to raise \$25,000 by May 1 for the purpose of grading and draining the athletic field. The completed stadium will be of reinforced concrete, 440 by 280 feet, a sufficient portion of the stands to be constructed at once to seat 8000.

Contractors are preparing bids and it is expected that construction will begin by May 1. The site selected for the stadium is a natural one with hills on three sides.

### Contract Let for \$1,000,000 Building at Charlotte.

Charlotte, N. C.—Contract has been awarded to the Hunkin Corkey Construction Company of Cleveland, O., for the 16-story office building to be erected in Charlotte by the Textile Office Building Company in which the Anchor Mills Company, C. W. Johnston, president, is interested.

The building will be 62 by 178 feet, of fireproof construction with steel frame and marble front. It will contain 285 offices and a total of 195,000 square feet of floor space. The Virginia Bridge and Iron Company of Roanoke, Va., was recently awarded contract for steel. W. L. Stoddart of New York is the architect.

The production of corn cob pipes in Missouri in 1923 was valued at nearly a million dollars, according to a report of the United States Department of Commerce.

## CANNERIES BEAT BOLL WEEVIL IN SPALDING COUNTY, GEORGIA.

**An Interesting Story of the Growth of a Pepper Packing Plant—How a Relish Factory Was Developed from a Successful County Fair Exhibit.**

By J. H. REED, Atlanta.

Griffin, Ga.—There are more ways than one of beating the boll weevil. And one of these ways, which is being worked out to good advantage in Spalding county, of which Griffin is the county seat, is through canning.

A number of years ago, when the boll weevil hit the section, S. D. Riegal, a market gardener living near Griffin, tried out among other things, the Pimento pepper.

It is easy to grow—but it was by no means so easy to preserve. The thick rind of the pepper lent a disagreeable flavor to the product, and there seemed to be no practical way of removing it. Nevertheless, Mr. Riegal kept on experimenting, and finally discovered that by roasting the peppers, the rind or skin would peel off easily.

Accordingly he devised a movable belt running over a furnace in such a manner that the peppers, put on the belt, would be roasted to exactly the right stage when they reached the end of the furnace. It solved the problem, and from that time on he was able to can the peppers satisfactorily and sell them all over the country.

Today, using the method that Mr. Riegal and his son, Mark Riegal, perfected, the Pomona Products Company, located at Griffin, ships thousands of cans of pimentos each year, making the growing of pimentos one of the principle industries of the section, and giving employment to hundreds of people. Last year the company is reported to have paid out between \$88,000 and \$90,000 in salaries alone.

But that is not the only canning industry in Spalding county by any means. About the time when Mr. Riegal was experimenting with his furnace, Mrs. Y. S. B. Gray, also a native of Spalding county, was preparing an exhibit for the county fair. Among other things, she devised a new relish—one that won a prize at the fair and which so delighted friends and neighbors that they demanded some of it and bought all that she could put up.

For a while Mrs. Gray did not attempt to put the new relish out on a commercial basis, but, yielding to the demand for her product and the suggestions of her friends, she finally decided to put it out on a commercial basis as "Gray's Relish," still selling it on a small scale.

Her cannery has now grown into a factory with a capacity of 10,000 cans of relish a day. It is shipped to twelve states and the District of Columbia now, and at the present rate of demand and expansion, will soon be shipped all over the United States.

Mrs. Gray's last order—for six carloads of bottles—was the largest of its kind ever placed in Spalding county, and this year she is planning to put up 300,000 bottles of the relish.

In connection with her relish, Mrs. Gray cans fig and watermelon rind preserves, using all the figs obtainable in the neighborhood. A new grove of Brown Turkey figs has just been set out on her farm to meet the increasing demand for fig preserves.

All of which goes to show what may grow out of an exhibit at a county fair.

Another large canning plant in Spalding county is the Yarbroughs, operated at Hollonville. This plant last year shipped four carloads of its famous Flint River brand tomatoes, or about 60,000 cans. This year it has made preparations to ship out 300,000 cans, or approximately 20 carloads.

And business is still increasing.

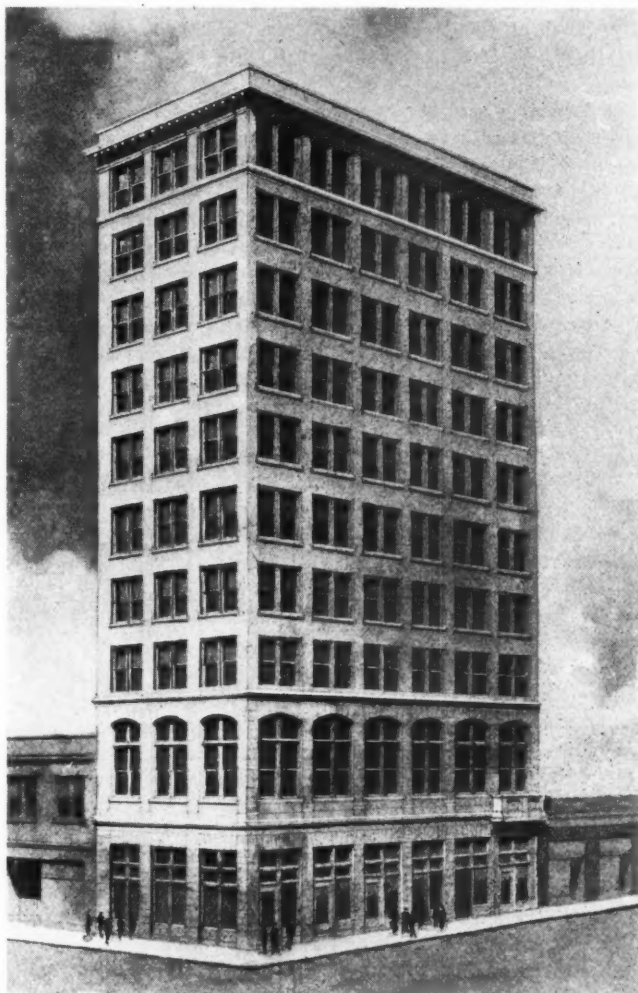
Cows, hogs and chickens all have an important place in defeating the boll weevil—but Spalding county, Georgia, has demonstrated that the canning factory is also an effective

weapon. The cannery, starting on a small scale, and developing as business develops, can be made to utilize many crops, giving employment both to farmers and townspeople, and bringing in profits where none existed before.

## Work Begins on Office Building for Atlanta Commercial Exchange—Will Be Modern 10 Story Structure.

Work has already begun on the new 10-story and basement building to be erected in Atlanta by the Atlanta Commercial Exchange at a cost of \$200,000. This organization combines in the one exchange the cotton, cotton seed oil, grain, fertilizer and meat products interests of Atlanta and nearby territory and the new building will be devoted entirely to these and related industries.

An accompanying illustration presents a view of the building as it will appear when completed. It will be 40 by 75 feet, and will afford 120 offices for the use of members of the exchange in addition to space for the exchange itself.



NEW \$200,000 BUILDING FOR ATLANTA COMMERCIAL EXCHANGE.

The exchange rooms will occupy the second floor and will be reached by a broad flight of marble steps. Ceilings will be 22 feet high and a mezzanine floor for visitors will be installed on one side. A large classification room will occupy the entire top floor. Morgan & Dillon are the architects and the Flagler Company, the contractors, both of Atlanta.

Officers of the exchange include Robert A. Smythe, president, cotton merchant; George W. McCarty, first vice-president, fertilizers; Samuel Martin, second vice-president, cotton warehousing; L. G. Neal, third vice-president, cotton seed oil and products; W. A. Gilreath, treasurer, cotton broker; J. Hope Tigner, secretary and superintendent.

# THE IRON AND STEEL SITUATION

## Iron and Steel Industry Now Stabilized, with Conditions Favorable for All Interests.

Pittsburgh, April 14—[Special]—Production of rails in the United States in 1922 is reported at 2,171,776 gross tons, against 2,178,818 tons in 1921, showing a slight decrease, whereas production of steel in general increased about 75 per cent. There was a fair increase in light rails, used by the industries, also in the heaviest section rails. Rail production this year will be much heavier, as there were large orders placed last autumn, in anticipation of the price advance from \$40 to \$43. In announcing the advance, the rail mills allowed the railroads to buy at the old price for delivery to July 1, 1923, the object being to secure winter rollings, but the outcome of trade conditions was that the mills did not particularly need the rail business. While rails used to be considered the most important single product of the steel industry, last year's output was only between 8 and 9 per cent of the total production of finished rolled steel. Two-thirds as large a tonnage of tin plate was made as of rails.

Steel ingot production in March was at a rate of about 45,500,000 gross tons a year, against rates of about 44,000,000 tons in February, 43,500,000 tons in January and 40,000,000 tons in the last three months of the old year. Production increased during March and has probably increased somewhat this month, so that the present rate is doubtless between 46,000,000 and 47,000,000 tons a year. This is easily the highest rate since the Armistice, but in September, 1918, there was a slightly higher rate, well above the rate before or afterwards. Now, however, there is well sustained production and thus in a general way the rate may be called the highest rate in the history of the industry.

Indeed, the outstanding feature of the whole iron and steel industry from a long range viewpoint is the smoothness which industrial operations are being conducted, in producing steel, in transporting it and in manufacturing it into finished wares or erecting it, in other words putting the steel into actual employment. This is a new thing. Ever since 1916, which was a year of production at 100 per cent of capacity, there has been one trouble or another, strikes, shortage of raw materials, labor inefficiency, deficiency in transportation or lack of orders. Now there is the condition of mills operating efficiently, turning out a large product, with well filled order books, and the customers of the steel industry prospering, working up the steel advantageously and finding a ready market for all their wares at good prices. Broadly speaking, the customers of the steel mills have been having fair profits for six months or more, while it is only of late that the steel producers have been getting satisfactory profits.

There has been so much to complain about in recent years that complaining, or speaking of difficulties, has become rather a habit. To this fact should be assigned the great amount of talk there has been lately about "labor shortage", though some of this talk must be ascribed to propagandist efforts in favor of loosening the immigration restrictions. As a matter of fact there is a very good supply of labor. The steel mills have labor or they would be unable to produce and ship 750,000 net tons of finished rolled steel a week, as they are doing, 50 per cent more than in the two biggest tonnage years before the war, 1912 and 1913. As exports are much smaller now, the increase in steel going to domestic buyers is more than 50 per cent greater. These buyers must also have a very good labor supply.

The Steel Corporation's unfilled obligations at the end of March stood at 7,403,332 tons, equal to six months of production at 90 per cent of capacity. There was an increase during March of 119,343 tons, equal to 8 per cent of the

month's capacity, and estimating shipments at 89 per cent the bookings were approximately 97 per cent of capacity, against 117 per cent in February and 97 per cent in January. This month may show bookings at somewhat under shipments. The large independents are sold well ahead, though not altogether as far as the Steel Corporation. Many smaller independents have followed a policy of keeping their order books relatively clear, selling only a few weeks ahead, so as to profit by such delivery premium market as might obtain.

Finished steel prices, for late delivery, have been stationary for more than a fortnight, and are said by leading mills to be high enough. Delivery premiums, which began developing in January, have not increased in the past three weeks, and possibly the market for early deliveries has grown a shade easier. Advances in pig iron prices came thick and fast in the first three weeks of March, while there have been no advances since and it is quite improbable that there will be any changes in the near future.

The whole iron and steel situation may now be considered stabilized, with prices practically stationary, order books well filled all around, and conditions favorable for very heavy production, distribution and consumption for months to come. The much predicted wage advance of the steel industry becomes effective April 16, so talk about wages is eliminated. The hourly rate for common labor advances from 36 to 40 cents. In 1898, the low was about 13 cents.

## Steel Ingot Production Reaches Huge Proportions

The monthly production of steel ingots, January, 1921, to March, 1923, as reported to the American Iron and Steel Institute, by 30 companies which made 87.50 per cent of the steel ingot production in 1921, demonstrates the present phenomenal activity in the steel industry, as herewith:

Months.	Open Hearth.	Bessemer.	All other.	Total.
1921.	Gross tons.	Gross tons.	Gross tons.	Gross tons.
January, .....	1,591,281	608,276	3,629	2,203,186
February, .....	1,295,865	450,818	2,796	1,749,477
March, .....	1,175,591	392,983	2,404	1,570,978
April, .....	1,000,053	211,755	2,150	1,213,958
May, .....	1,047,810	216,497	1,543	1,265,850
June, .....	808,286	193,644	1,476	1,003,406
July, .....	689,489	113,312	575	803,376
August, .....	915,334	221,116	1,621	1,138,071
September, .....	908,381	265,152	1,207	1,174,740
October, .....	1,269,945	345,837	1,028	1,616,810
November, .....	1,294,371	363,912	1,718	1,660,001
December, .....	1,129,174	296,350	1,539	1,427,093
Total, .....	13,125,578	3,679,682	21,686	16,826,946
1922.				
January, .....	1,260,809	331,851	822	1,593,482
February, .....	1,395,835	348,571	616	1,745,022
March, .....	1,918,570	451,386	795	2,370,751
April, .....	1,997,465	445,939	1,109	2,444,513
May, .....	2,214,774	494,893	1,474	2,711,141
June, .....	2,143,708	487,851	2,918	2,634,477
July, .....	2,020,572	464,047	2,485	2,487,104
August, .....	1,807,310	404,379	2,893	2,214,582
September, .....	1,911,147	460,127	2,505	2,373,779
October, .....	2,352,207	518,010	2,198	2,872,415
November, .....	2,360,903	525,945	2,449	2,889,297
December, .....	2,241,104	536,214	2,572	2,779,890
Total, .....	23,624,404	5,469,213	22,836	29,116,453
1923.				
January, .....	2,571,491	677,486	2,717	3,251,694
February, .....	2,290,418	625,838	2,761	2,919,017
March, .....	2,656,134	742,564	3,309	3,402,007

## Limiting Pig Iron Sales to Regular Trade—Hope to Break Production This Month.

Birmingham, Ala., April 16—[Special]—Southern furnace interests are still selling only to the regular customers and the melters of iron in the Southern territory. There is plenty of business to be had and considerable iron is selling. The market is still strong and the \$27 per ton price, No. 2 foundry, is being maintained. A few spot delivery sales have been consummated at \$28 but that price is not average and the indications are the quotations will be kept firm.

Furnace operation is being closely watched the need for

pig iron being such as to warrant the greatest output possible in this territory.

The first half of the month shows a most satisfactory production and the hope is expressed that the record mark will be met.

Stove making plants as well as radiators, heating apparatus and foundries of a similar nature have been among the inquirers recently, indicating that there will be need for iron in quantity the balance of the year. The cast iron pipe industry has already booked business that will warrant steady operation for several months ahead. More business is in sight according to statements in this branch of the industry and arrangements will have yet to be made for a large quantity of iron.

Steel mills are operating to full capacities with their respective products in strong demand and great quantities sold ahead. The Tennessee Coal, Iron & Railroad Company will increase wages of common labor 11 per cent beginning April 16 and equitably readjust the wages, tonnage prices and earnings of the other labor. The same is true in the plant of the American Steel & Wire Company at Fairfield. This wage increase has had a most buoyant influence on general conditions and the labor apparently is showing an appreciation in expression of good feeling.

Following a visit to the district and inspection of much of the properties of The Alabama Company, by officers and directors, announcement was made that the operation of the new coal mines at Lewisburg would be taken up at once and other developments will be announced later.

Coal miners at the Beltona mines of the American Fuel Company went on strike last week because the company refused to renew contract with the union. Other labor is being placed so that the production can be continued. With the exception of a small mine in Walker county, there is no other labor trouble in this field. The production of coal is showing steady increase, the peak having gone up to 416,000 tons for the week.

The coke market continues very strong and the quotations for the product exceptionally good, \$8 per ton being low for foundry, with \$8.50 and \$9 being obtained.

Quotations for pig iron and iron and steel scrap follow:

#### PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$27.00; No. 1, foundry, 2.25 to 2.75 per cent silicon, \$27.50; iron of 2.75 to 3.25 per cent silicon, \$28.00; iron of 3.25 to 3.75 per cent silicon, \$28.50; iron of 3.75 to 4.25 per cent silicon, \$29.00; charcoal iron, f. o. b. furnaces, \$34.00 to \$35.00.

#### OLD MATERIAL.

Old steel axles .....	\$27.00 to \$28.00
Old iron axles .....	30.00 to 31.00
Old steel rails .....	19.00 to 20.00
Heavy melting steel .....	17.50 to 18.00
No. 1 R. R. wrought .....	20.00 to 21.00
No. 1 cast .....	24.00 to 25.00
Stove plate .....	19.00 to 20.00
Old car wheels .....	23.00 to 24.00
Old tramcar wheels .....	24.00 to 25.00
Machine shop turnings .....	13.00 to 14.00
Cast iron borings .....	13.50 to 14.00
Cast iron borings, (chem.) .....	16.50 to 17.00

### Sloss-Sheffield Makes Good Showing.

Birmingham, Ala., April 16—[Special]—The annual meeting of the Sloss-Sheffield Steel & Iron Company, held at Jersey City last week, had reports submitted by J. W. McQueen, president, showing affairs to be in good conditions, five blast furnaces now in operation and a sixth one being gotten ready for operation shortly, and the net profits for the past year to have been \$578,893, as compared with a net loss of \$1,113,417 the year before. The 1922 earnings are equivalent after all charges, taxes and preferred dividends to \$1.09 a share on the common stock. Directors were all re-elected. Mr. McQueen's report also showed that notes payable have been reduced, and sales of pig iron made which will require delivery for several months to come. The company reduced its stock of over 300,000 tons of coke to 100,000 tons and is not selling promiscuously because of the probable needs at its furnaces and for the other trade.

## TEXTILE

### PACIFIC MILLS LETS CONTRACT FOR BIG SOUTHERN PLANT.

Mills Estimated to Cost from \$4,000,000 to \$5,000,000—Work Will Begin at Once.

Spartanburg, S. C.—General contract for the manufacturing buildings for the plant which the Pacific Mills of Boston will build on the Groce tract near Duncan, South Carolina, has been awarded to Parklap, Inc., of New York, and construction will begin at once. No announcement has been made of the cost of the buildings and equipment but various estimates place the total at from \$4,000,000 to \$5,500,000.

The Parklap contract is exclusive of the structural steel frame, contract for this having been awarded to the McClintic-Marshall Construction Company of Pittsburgh. Contract for the buildings provides for the construction of a cotton mill of 36,000-spindles capacity, 136 by 290 feet, 4 stories; bleachery 196 by 652 feet, two stories and basement; warehouse, 75 by 103 feet, 5 stories, and a boiler and pumphouse 75 by 68 feet. All structures will be of concrete and steel, between 20,000 and 30,000 tons of the latter being required for the framing.

The site of the mill embraces an area of 700 acres and it is stated that 300 dwellings for operatives will be erected. Lockwood, Greene & Company, engineers of Boston and Atlanta, awarded the contracts—and in addition to those enumerated above, they have also placed various other contracts for machinery and equipment. It is expected that the new plant will be ready for operation within eighteen months.

### Ideal Mills Incorporates and Plans Improvements.

Elizabeth City, N. C.—Changing its name from the Ideal Hosiery Company to the Ideal Mills, Inc., the company has been chartered with a capital stock of \$125,000. Present plans involve the enlargement and improvement of its 3-story building; the construction of a larger plant is being considered. The mill employs about 50 operatives and has a capacity of 350 dozen pairs of hose per day.

Officers of the company include M. G. Morrisette, president; W. G. Gaither, vice president; G. F. Wright, manager, secretary and treasurer, and W. H. Jennings, assistant secretary and treasurer.

### Will Demonstrate Boll Weevil Remedy.

Discussing the recent statement of H. W. Gonia of Huntington, W. Va., to the effect that he has a formula which will kill the boll weevil but which is non-poisonous to men or farm animals, Mr. W. B. Warthen of Davisboro, Ga. writes the MANUFACTURERS RECORD that arrangements have been made for a demonstration of the formula this season. The test area will be on a farm on the Dixie Highway about one and a half miles east of Davisboro and it will be so placarded that those who desire to witness the demonstration can readily locate the farm.

### Highland Park Manufacturing Company to Build Addition.

Charlotte, N. C.—Contract has been awarded to S. Oates of this city to build an addition to the plant here of the Highland Park Manufacturing Company. The addition will be 75 by 98 feet, one story, brick, and will cost \$10,000.

This company operates mills Nos. 1 and 3 in Charlotte and mill No. 2 at Rock Hill, for the production of gingham. The Charlotte plans accommodate 46,000 ring spindles and 1676 looms, and the Rock Hill plant, 16,256 spindles and 776 looms.

### Dunean Mills Plan to Increase Capital from \$1,750,000 to \$2,350,000 and Enlarge Plant.

Greenville, S. C.—A special meeting of the stockholders of the Dunean Mills will be held at the offices of the company near Greenville on May 3 for the purpose of voting on a resolution of the directors to increase the authorized capital stock of the company from \$1,750,000 to \$2,350,000 divided into shares of the par value of \$100 each.

The Dunean Mills have an enlargement program under way at present which involves the erection of a reinforced concrete twister building, 133 by 185 feet, to accommodate an installation of 8056 new and 2305 old twistors on the second floor, the first floor to provide space for spoolers and winders. J. E. Sirrine & Company of this city are the engineers.

Supplementing these improvements, the company already has under construction 60 dwellings for employees.

### 1,000,000 Pounds of Calcium Arsenate for Georgia Cotton Growers.

Atlanta, Ga.—The Georgia State Board of Entomology announces that it has purchased 1,000,000 pounds of calcium arsenate in 200-pound packages which will be shipped to the board in equal monthly installments from April 15 to August 15. This purchase has been made a price which will enable the board to sell it to the farmers of the State at 16 cents per pound in car lots delivered at their railroad station. In less than car lots, the price will be 18 cents per pound f. o. b. Savannah.

The plan of distribution provides that orders shall be made in multiples of 200 pounds, since the shipments will be made in uniform 200-pound packages, and orders will be filled as received.

### Will Build Cloth Room and Storage.

Newberry, S. C.—J. E. Sirrine & Company of Greenville have been engaged by the Mollohon Manufacturing Company as engineers for building a cloth room and cloth storage at its plant here.

The Mollohon company, of which George W. Summer is president and treasurer, is capitalized at \$750,000 and operates 40,000 ring spindles and 1012 looms for the production of wide print cloth and sheeting.

### Sugarland to Have 10,000-Spindle Cotton Mill.

Sugarland, Tex.—Plans for a 10,000-spindle cotton mill which is to be constructed here by the Sugarland Industries have been prepared by M. M. Merrill & Co., textile engineers, of Boston, Mass., according to G. D. Ulrich, vice president and general manager of the Sugarland Industries. The latter company owns a group of manufacturing plants here, the largest of which is a sugar refinery.

### Installing Bleaching and Finishing Machinery.

Danville, Va.—Machinery is being installed in the new building which has been completed here for the Riverside & Dan River Cotton Mills, Dan River Division, by Lockwood, Greene & Company, engineers of Boston and Atlanta. The building is five stories and basement, 350 by 150 feet, and will be equipped for bleaching and finishing wide sheetings and for finishing gingham.

### Art Cloth Mill to Build Weave Shed.

Gastonia, N. C.—A weave shed for the production of mixed silk and cotton cloth will be erected here by the Art Cloth Mill, R. L. Stowe, president. The company will install dyeing and probably finishing machinery. Construction will be of the daylight type. J. E. Sirrine & Company of Greenville, S. C., are the engineers.

### Beaumont Company Lets Contract for Weave Shed.

Spartanburg, S. C.—Contract has been awarded to the Fiske-Carter Construction Company of this city for the construction of the new weave shed to be built here by the Beaumont Manufacturing Company. The building will be 86½ by 258 feet, 2 stories, of brick and reinforced concrete, the top story and roof to have steel girders and wood floors. On the first floor 320 looms will be installed for No. 1 mill, and on the second floor, 316 will be installed for No. 2 mill. Of the total number of looms, 450 will be new. This new construction will make possible the installation of 9000 additional spindles, increasing the total spindleage of the mills from 42,000 to 51,000.

It is expected that the new weave shed will be completed by fall, and in the meantime 50 dwellings for operatives will be erected.

J. E. Sirrine & Co., of Greenville are the engineers.

### Will Build 5000-Spindle Mill at Clayton.

Clayton, N. C.—The Liberty Cotton Mill Company which was recently authorized to increase its capital stock to \$300,000, has awarded contract to D. W. Ellis, of Clayton for the construction of a brick mill building here, to house 5000 spindles and accompanying equipment for the production of cotton yarns up to a daily capacity of 4000 pounds. The building will be 104 by 135 feet, and will cost \$35,000.

Machinery has been purchased from the Whitin Machine Works, of Whitinsville, Mass., for \$65,000, all equipment to be electrically driven. R. C. Biberstein, of Charlotte, N. C., is the engineer.

Officers of the Liberty Cotton Mill Company are Charles W. Horne, president; J. D. Barbour, vice president; D. L. Barbour, secretary and treasurer, and A. C. Atkinson, manager.

### Lydia Cotton Mills to Enlarge at Cost of \$750,000.

Clinton, S. C.—Plans for the enlargement of the plant of the Lydia Cotton Mills here at a cost of \$750,000 are well developed and it is said contracts will soon be awarded. It is the purpose of the company to complete the building as soon as possible. Machinery will be purchased later.

The Lydia Cotton Mills of which Mercer S. Bailey is president and Cassius M. Bailey, treasurer, operate 22,544 spinning spindles, 500 looms and 1000 twisting spindles. The production is wide print cloth and soft mule twist skeins.

### Cherokee Spinning Company's Building Progresses.

Knoxville, Tenn.—Work on the building being erected here by the Cherokee Spinning Company is progressing at a satisfactory rate. The structure was designed by Lockwood, Greene & Company, engineers of Boston and Atlanta, and is of brick and concrete with a saw-tooth roof. It will be equipped for weaving and finishing fine gingham.

### Textile Mill Notes.

The Huntsville Knitting Company of Huntsville, Ala., has filed a trust mortgage securing a loan of \$150,000 which will be used to make extensive improvements in the plant and to purchase and install machinery for the production of gingham. Heretofore the plant has been devoted exclusively to the manufacture of knitted underwear.

The following cotton mills of North Carolina have recently increased their capital stock: The Liberty Cotton Mill Company of Clayton, from \$120,000 to \$300,000; Dover Mill Company of Shelby, from \$500,000 to \$700,000, and the Leaksville Woolen Mills of Charlotte, from \$350,000 to \$600,000.

The Art Cloth Mills of Gastonia, N. C. have filed an amendment to their charter increasing the capital stock from \$200,000 to \$1,500,000. R. L. Stone is the president of the company.

## RAILROADS

### Thousands of Cars and Engines and Many Improvements Ordered.

Several interesting facts concerning additions to equipment and improvements to other property are contained in the annual report of the Louisville & Nashville Railroad Co. just issued for the year 1922. The equipment at the end of the year included 1289 locomotives, 54,674 freight cars, 856 passenger cars and 2250 work cars. There still remained to be delivered on previous contracts 24 locomotives, 3505 freight cars and 5 passenger cars, but since the first of this year the company has placed further orders for 36 locomotives, 8000 freight cars and 51 passenger cars, making a total of 60 locomotives, 11,505 freight cars and 56 passenger cars to be put in service this year. Of this total 8505 are coal cars to meet requirements of the very heavy coal traffic on the system.

Handling this growing coal traffic is to be further provided for by construction that includes 15½ miles of second track from Perritt to Lennut, Ky., on the line out of Hazard, Ky., this requiring the driving of three tunnels parallel to existing tunnels; the building of additional yard facilities at Ravenna, Ky.; and the building of over 16½ miles of second track from Bailey's to Wallsend, Ky., to care for traffic from the Kentucky and Virginia branch. It is expected that the first of these jobs will be finished next spring, the second of them in August of this year and the third by June of next year.

Down in Louisiana a new single track bridge is to be constructed over Great Rigolets Pass, 30 miles east of New Orleans. This bridge, which with its approaches will be nearly a mile long, will have eight fixed spans of 330 feet each and a swing draw span of 414 feet; the western approach will be 252 feet long and the eastern approach 1248 feet long. This work is expected to be completed next year.

The new freight station at Knoxville, Tenn., replacing the station which was burned last summer is expected to be finished in June of this year.

The income account shows that railway operating revenues for 1922 were \$121,138,840; increase as compared with 1921, \$3,653,063; railway operating expenses, \$99,604,496; decrease, \$7,804,442; net railway operating revenue, \$21,534,343; increase, \$11,457,505; net railway operating income, \$17,604,321; increase, \$11,844,682; total income, \$20,431,728; increase, \$11,772,523; net income, \$10,598,019; increase \$10,934,981, as there was a deficit of \$336,961 in 1921.

### Spreading Socialism Among Railroad Men.

Chicago, April 6—[Special]—Educational propaganda which is declared to be a part of an international movement to spread the doctrine of socialism in labor organizations of all countries, is being carried on in the railroad labor organizations of the United States as a means of promoting nationalization of the railroads, according to the current issue of the *Railway Review*, which continuing says that the furtherance of the socialist program of workers' education in this country has an immediate practical purpose of greater importance than any possible altruistic value; seizure of industries by the workers is advocated by leaders of the new educational movement.

The journal of the Brotherhood of Locomotive Engineers, according to the *Railway Review*, has announced a plan for promoting study along socialistic lines. An announcement quoted from the *Locomotive Engineers Journal* by the railroad paper states that the engineers' organization is now making a careful study of educational conditions in every

college and university in America. The brotherhood journal offers its services in the selection of schools. The text books and literature which are recommended by the brotherhood publication are mostly the work of socialist writers. The editor of the brotherhood paper, it is also claimed, is a lecturer in a socialist college in New York.

It is declared that seizure or nationalization of industries is the ultimate goal of many socialists who are connected with the workers' colleges that are recommended to members of railroad organizations and other labor unions.

### New Company Now in Control.

The Waco, Beaumont, Trinity & Sabine Railway Co. has assumed control of the Beaumont & Great Northern Railroad, 48 miles long from Weldon to Livingston, Tex., and the Trinity & Sabine Railway, 67 miles long from Trinity to Colmesneil, Tex., which were bought some time ago by R. C. Duff, of Houston, Tex., and associates, this change of control from the Missouri, Kansas & Texas Railway having taken place April 1. The officers of the new company are R. C. Duff, president; W. W. Smithey, assistant to the president and purchasing agent; A. M. Acheson, vice-president, general manager and chief engineer; W. H. Bradley, treasurer; N. L. Barnes, secretary and auditor; J. K. Enright, assistant secretary; H. E. Kitcher, traffic manager. Headquarters will be at Houston, but some of the officers, including the vice-president, treasurer, secretary, assistant secretary and traffic manager will be located at Trinity. As previously announced, plans are under consideration for the construction of extensions from Weldon to Waco, Tex., and from Livingston to Beaumont, Tex., altogether about 200 miles of line.

### Improvements to Cost \$3,500,000.

Improvement plans outlined by President T. A. Hamilton, of the International & Great Northern Railroad Co., Houston, Tex., call for an expenditure of \$3,500,000, already begun, and including \$1,400,000 for new rails, \$310,000 for ballast and roadbed, \$280,000 to rebuild and strengthen bridges, \$100,000 to erect new fuel oil storage tanks, \$250,000 for new shops, \$310,000 to repair passenger locomotives, \$490,000 for the improvement of freight rolling stock, \$100,000 for new work train equipment and \$260,000 for miscellaneous repairs. From San Antonio to Valley Junction 90 pound rails will be laid, and 75 pound rails will be laid from San Antonio to Laredo. Good freight traffic is reported and it is increasing.

### A Mississippi Line to Be Sold.

The Columbus & Greenville Railroad, 167½ miles long from Columbus to Greenville, Miss., is to be disposed of at receiver's sale in Columbus, on Monday, August 6, according to a decree of the Federal Court for the District of Mississippi, Judge Edward R. Holmes, action having been instituted by the Willis Coal & Mining Co., one of the creditors of the road, which has been in a receivership for about two years. The line will be sold subject to two mortgages which secure two bond issues amounting to a total of about \$6,000,000. A. T. Stovall, of Columbus, is receiver, who, it is stated, has put the property on a good business basis.

### Railway and Steamer Office Opened.

The Southern Railway Co. and the Chesapeake Steamship Co. have opened a new passenger and freight office at 121 East Baltimore Street, Baltimore, Md., with L. H. Burgess as district passenger agent and W. B. McGroarty as district freight agent.

### Freight Traffic Keeps on Growing—Crop Moving Plans.

During the week ended March 31 there were 938,725 cars loaded with revenue freight on the railroads in the United States, according to the car service division of the American Railway Association. This was a total of 21,689 cars more than were loaded during the preceding week, and the largest number of cars loaded in any week since November 25. As compared with the same week of last year, the loadings showed an increase of almost 117,000 cars, and as compared with the corresponding week in 1921, an increase of more than 275,500 cars. Increases were also noted in comparison with the corresponding weeks in 1920, 1919 and 1918. A total of 938,725 cars loaded in any one week was not reached last year until September, which shows that the loadings at present for the spring season are unprecedentedly heavy. Since the first of the year there have been loaded up to and including March 31, a total of 11,330,423 cars as against 9,901,137 cars in the same period of last year, or an increase of 1,429,286 cars. The increase as compared with the same period of 1921 was 2,314,489 cars.

Definite plans to establish a reserve supply of freight cars west of the Mississippi River for the movement of crops in the fall were made last week at a meeting of transportation officers of the Eastern and Southern railroads with the car service division of the American Railway Association. The latter has therefore issued an order that all box cars of Western ownership which are now east of the Chicago and Mississippi Rivers shall not be held for prospective loading and shall not be moved in any direction opposite to their place of ownership. The idea back of this is to enable the Western roads to have on their lines, as far as possible, all cars owned by them that are specially adapted for carrying crop products. This is one step in the general traffic program recently announced.

### Rail Production Now Nearly All by Open Hearth Process.

A special statistical bulletin issued by the American Iron & Steel Institute shows in a fifteen years table how open hearth steel rails have taken the place of Bessemer steel rails in railroad construction. In 1908 the production of open hearth steel rails totaled over 571,000 tons and production of Bessemer steel rails over 1,349,000 tons. In 1922 production of open hearth rails was 2,033,000 tons and of Bessemer rails a little over 22,000 tons. The year of largest production in this fifteen years period was 1910 when there were 1,751,359 tons of open hearth rails and 1,884,442 tons of Bessemer rails produced, making a total of more than 3,636,000 tons of rails manufactured that year, there having been 230 tons of iron rails included in the aggregate. The total tonnage produced last year was 2,171,776, there having been 116,459 tons rerolled.

### Company Incorporated to Build from San Antonio to San Angelo, Tex.

Austin, Texas, April 14—[Special]—Incorporation papers of the San Antonio, Medina Lake & Western Railroad Company have just been filed here. The capital stock is \$190,000, and it is proposed to build a line from San Antonio to San Angelo, 190 miles. The general offices are in San Antonio. Incorporators: W. L. Williams, P. G. Lucas, and Paul Hansen, all of San Antonio, and others. This road will connect with the Santa Fe at Menard and with the Kansas City, Mexico & Orient and the Santa Fe lines at San Angelo. It will traverse the heart of the sheep and Angora goat grazing region of Texas. It is stated that application for permission to build it has been filed with the Interstate Commerce Commission.

### New Equipment.

Chesapeake & Ohio Railway has ordered 1000 steel hopper cars from the American Car & Foundry Company's plant at Berwick, Pa., and it is stated that a contract is practically closed for 500 more cars of the same type to be constructed by another builder.

Louisville & Nashville Railroad is reported to have ordered 14 baggage cars and 10 combination baggage and mail cars from the Pressed Steel Car Co., and 10 passenger cars with smoking rooms, 5 passenger cars and 2 dining cars from the American Car & Foundry Co. There are 10 passenger cars yet to be purchased.

Ohio Valley Electric Railway Co., Huntington, W. Va., has ordered 40 new cars of steel construction for both city and interurban service from the J. G. Brill Co. They will be 47 feet long and will have seats for 48 passengers.

Southern Pacific Railway has ordered 350 steel ballast cars from the Mount Vernon Car & Manufacturing Co.

Equipment inquiries noted in the market include 35 locomotives for the Missouri Pacific Railway and 4 baggage and mail cars for the Seaboard Air Line.

Shipments of locomotives by the principal builders of this country during March amounted to 282, of which 269 were for American railroads and 13 for foreign lines and there are orders on hand now for 2214 locomotives for American railroads and 102 for foreign lines. The business during March was the largest month's output since December of 1920.

### Improvements for Freight and Passenger Traffic.

The recent appropriation of about \$2,000,000 by the Carolina, Clinchfield & Ohio Railway Co. for locomotives, 10 of which will be of the heavy Mallet type and 10 of the Mikado type, will give the road a total of 100 engines, of which 48 are of the Mallet type and 21 of the Mikado type, the rest including passenger locomotives, switchers, etc. It is also interesting to note that on April 1, this company began operating Pullman buffet-parlor car service on through trains between Elkhorn City, Ky., and Spartanburg, S. C. in both directions. The enlarged motive power also facilitates the increased freight traffic between those points as part of the through route between the South and the North and West.

### Autos Must Halt at Railroad Crossings.

Raleigh, N. C.—Drivers of automobiles and trucks on the public roads of North Carolina must halt before crossing railway tracks at grade, under an act of the General Assembly, effective July 1, 1923. Every person driving a motor vehicle must come to a full stop at a distance not exceeding fifty feet from the nearest rail when approaching a railway track. Failure to observe the law will be a misdemeanor, punishable by fine or imprisonment.

Similar laws are already in force in Virginia and Tennessee.

### Bulletin on Car Wheels.

Bulletin No. 135 of the engineering experiment station, University of Illinois, Urbana, Ill., is entitled: "An Investigation of the Properties of Chilled Iron Car Wheels. Part III: Strains Due to Brake Application Coefficient of Friction and Brake Shoe Wear." There are 100 pages in the Bulletin which was written by J. M. Snodgrass and F. H. Guldner. It is illustrated with pictures and diagrams; there are also tables, all of which will be appreciated by car builders, car wheel manufacturers and others.

Portland cement consumption in the Eastern states of the country between 1918 and 1922 increased 64%, or from 22,963,000 barrels to 37,688,000 barrels, according to a study which has just been made by the Cement Information Service.

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# LUMBER AND BUILDING MATERIALS

## Slight Reduction in Shipments, but Lumber Industry Is Operating to Full Normal Capacity.

Washington, April 11—With production and new business on about the same volume as in the preceding week and with shipments appreciably less, the lumber movement of the country for last week, according to the National Lumber Manufacturers Association, was approximately 30 per cent larger than for the same period last year, except that orders show but a slight increase. There were only 375 mills reporting, as compared with a revised total of 395 the week before, which accounts for a measure of the decrease in shipments. For all reporting mills shipments were 102 and new business 99 per cent of current production. Corresponding percentages for the Southern pine mills are 107 and 95, and for West Coast mills, 105 and 104. Of the above mills 348 have a normal production figure for the week, of which their current production was 100 per cent, their shipments 103 per cent and orders 98 per cent. Unfilled orders for the year to date total 197,000,000 feet.

The Southern Pine Association reports that Southern mills fared slightly better last week in securing needed cars, shipments of Southern pine gaining 7 per cent over the previous week. Continued unfavorable weather for logging resulted in only 33 mills operating full time, out of 71 reporting running time, with the result that there was another slight decrease in production as reported.

The Michigan Hardwood Manufacturers Association wires from Cadillac that the lumbermen of Michigan are beginning to dig out of the snow drifts and that consequently lumber is moving faster than for several weeks past. The demand is represented as good for dry stocks, which are very light; consequently some shipments are being made green from the saw. The New Haven Railway embargo is still holding up many shipments to New England territory.

The following figures record the lumber movement for last week, the corresponding week in 1922 and the preceding week this year:

	Past Week	Corresponding Week 1922.	Preceding Week 1923 (Revised.)
Mills	375	382	395
Production	240,106,442	190,016,032	240,264,006
Shipments	244,821,238	191,900,545	260,113,057
Orders	237,860,726	233,756,759	233,535,025

## LUMBER MOVEMENT FOR FOURTEEN WEEKS, AND FOR THE WEEK ENDING APRIL 7.

	Production		Shipments		Orders	
	1923	1922	1923	1922	1923	1922
<b>Southern Pine Association:</b>						
Total	1,007,463,761	1,002,699,914	1,074,485,055	955,556,095	1,117,311,993	1,024,825,105
Week (129 mills)	69,046,969	72,255,739	73,841,549	75,511,280	65,610,871	89,819,130
<b>West Coast Lumbermen's Ass'n.:</b>						
Total	1,301,904,722	1,079,785,267	1,529,331,655	996,267,950	1,525,275,071	1,018,361,278
Week (136 mills)	106,843,921	78,518,433	111,651,011	73,123,394	111,503,815	87,728,487
<b>Western Pine Mfrs. Ass'n.:</b>						
Total	242,393,000	145,957,000	357,514,000	263,428,000	354,775,000	301,775,000
Week (38 mills)	30,312,000	18,109,000	26,280,000	24,178,000	29,125,000	32,100,000
<b>Calif. White &amp; Sugar Pine Mfrs.:</b>						
Total	69,069,000	28,695,000	113,187,000	59,862,000	269,758,000	99,006,000
Week (10 mills)	6,794,000	2,233,000	5,422,000	4,211,000	10,372,000	5,366,000
<b>Calif. Redwood Ass'n.:</b>						
Total	107,767,000	89,606,000	123,720,000	86,333,000	146,712,000	96,214,000
Week (14 mills)	9,671,000	7,774,000	10,028,000	6,199,000	6,322,000	6,640,000
<b>North Carolina Pine Ass'n.:</b>						
Total	112,524,765	113,992,818	122,924,117	96,013,101	114,268,320	104,017,976
Week (31 mills)	4,484,752	10,278,860	4,259,778	6,799,871	3,036,040	10,258,142
<b>Northern Hem. &amp; H'wood (Sftw'd):</b>						
Total	33,791,000	20,868,000	34,532,000	26,238,000	32,305,000	26,132,000
Week (7 mills)	2,280,000	847,000	2,686,000	1,878,000	1,593,000	1,845,000
<b>Northern Pine Mfrs. Ass'n.:</b>						
Total	100,839,050		112,682,188		99,188,000	
Week (9 mills)	7,639,800		7,577,900		6,406,000	
<b>General Total for 14 Weeks (Sftw'd.)</b>	<b>2,975,752,298</b>	<b>2,501,603,999</b>	<b>3,468,376,015</b>	<b>2,483,698,146</b>	<b>3,659,593,384</b>	<b>2,670,331,359</b>
<b>Northern Hem. &amp; Hdwd. (Hdwd.)</b>						
14 Weeks	48,060,000		41,599,000		40,047,000	
General Total for Week	240,106,442	190,016,032	244,821,238	191,900,545	237,860,726	233,756,759

The following is a comparison of the lumber movement so far this year with the corresponding part of last year:

	Production	Shipments	Orders
1923	2,968,112,498	3,460,798,115	3,653,187,384
1922	2,501,603,999	2,483,698,146	2,670,331,359
1923 Increase	466,508,499	977,099,969	982,856,025

## Increasing Economic Importance of Red Gum Timber.

Orange, Tex.—It is stated by lumbermen that no development of that industry during the last several years is of more importance from an economic standpoint than the utilization of red gum timber which was formerly thought to possess little if any value.

The red gum is one of the commonest timber trees of the South, reaching its best development in the deep, rich soil of the bottoms, where it often attains a height of 150 feet and a diameter of 5 feet. The demand for red gum has increased very rapidly in the last few years.

The best grades of red gum, clear heart, find a market almost exclusively in the export trade, though a comparatively small amount is used in the United States for inside finishing. Practically 75 per cent of the clear heart gum lumber cut in this country is exported for use in England, France and other foreign countries, for the manufacture of furniture, inside trimmings, newel posts and stair railings. The commoner grades of red gum are used in the United States for cheap furniture, desks, the better grades of boxes and a number of novelties. The poorest grades go into boxes, barrels and other articles, for which short, narrow boards can be used. The inner portion of the hearts of the trees, which are of little value for boards on account of shakes and other defects, are usually sawed into 2 by 4 to 2 by 12, and sometimes 6 by 6 and 6 by 8 inch building timbers. These timbers have small values in the large markets, but near the mills the local trade exhausts the supply.

For the manufacture of slack barrels red gum is one of the most important woods in the country, ranking second to elm, both as a stave and a heading wood. Up to the year 1900 elm and a little cottonwood were used for this purpose, but with the advance in price of these woods a substitute had to be found, and red gum, owing to its cheapness was experimented with and found quite satisfactory.

The chief objection to red gum is its strong tendency to

warp and twist. This can be entirely overcome by proper handling, it is stated. It is pointed out that the preparation of red gum lumber for any purpose should begin when the tree is felled. To guard against staining and warping it is handled in much the same way as other woods, so that the air may circulate freely, and thus prevent fermentation of the sap and that the cross stocks must be placed close together. It has also been found well to place heavy weights on the cars of red gum when they are sent to the kiln.

Every manufacturer of high grade furniture and trim knows that to secure the best possible results, the material must be redried when it reaches the factory. Some large users of red gum reple the stock after it has been carried awhile, and bulk it down with cross stocks every five or six layers, so as to straighten out whatever twist there may be in the boards. This practically assures the elimination of twisting and warping. Persons who are acquainted with red gum assert that it can be handled in this way to much better advantage than where an effort is made to straighten it out by force, when cutting up the stock and preparing it for use; for, when the pressure is applied gradually, there is no loss by reason of breakage or splitting. After having been dried and tempered in the air and then redried, it usually loses nearly all of its warping tendency. The cost of handling lumber in this manner is not great, and the good results secured thereby more than pay for whatever outlay there may be, according to experts.

A plan, which many furniture manufacturers have followed to good advantage and employed where red gum, oak, mahogany, or other woods are used, is to design the article in such manner that the wide pieces may be reinforced, and thus prevent any warping or other defects showing up. Instances have been known where red gum boards eighteen inches wide have been glued together and made into 86-inch desk tops. The tops were firmly cleated on the bottom, held to place as well as any other wood, and gave good satisfaction. This lumber has been standing on the stocks for about a year. Another manufacturer, who uses red gum for drawers and paneling, guarded against the tendency to shrink and swell by the application of a couple of coats of shellac inside and out, and found that the wood behaved itself as well as any that could have been used. In this instance plain sawed gum was employed, and plain sawed material ordinarily gives more trouble than quarter sawed. When it is used in the manufacture of furniture, tenons should have more body, and greater precautions in the way of cleating the wide boards is required.

### Report on Southern Pine.

The Southern Pine Association for the week ended April 6 reports as follows on 129 mills:

	Cars.	Feet.
Order on hand beginning of week.....	18,500	394,475,500
Orders received during week .....	3,077	65,610,871
Total .....	21,577	460,086,371
Shipments during week.....	3,463	73,841,549
Orders on hand end of week.....	18,114	386,244,822

Production for the week was 69,046,969 feet. Shipments were 4,794,580 feet above production or 6.94 per cent, and orders were 3,436,098 feet below production or 4.98 per cent. Orders were 11.15 per cent or 8,230,678 feet below shipments. The week was 16.95 per cent or 14,094,628 feet below normal production, and orders were 21.09 per cent or 17,530,726 feet below normal production. The decrease in "orders on hand" amounted to 8,230,678 feet or 2.09 per cent.

The Daytona Public Service Corporation of Daytona, Fla., J. C. Lyle, manager, has under consideration the expenditure of \$200,000 for additions to its ice, electric and gas plants.

### North Carolina Pine Report.

The North Carolina Pine Association reports as follows on 48 mills for the week ending April 7:

	Total Feet
Orders .....	5,401,040
Shipments .....	8,266,623
Production .....	8,542,969
Normal Production .....	10,605,000

The orders were 34 per cent below shipments, 37 per cent below actual production and 49 per cent below normal production. Shipments were 3 per cent below actual production, and 22 per cent below normal production. The actual production was 19 per cent below normal. The week shows a decrease in orders of 666,490 feet or 10 per cent.

### Dredging to Start Soon on Deep-Water Channel—Of Much Significance to Point Isabel Section.

Point Isabel, Tex.—It is expected that the dredging of a deep-water channel from Point Isabel to the Gulf of Mexico will bring a renaissance of this port. Great importance is attached to the recognition of this channel project by the Federal Government and the awarding of the contract for the dredging work.

It has been nearly fifty years since any ocean traffic was handled through Point Isabel. For several years, following the construction of the Rio Grande Railroad which runs from Point Isabel to Brownsville, an enormous amount of freight both inbound and outbound passed through here. It was the shipping port for not only all of Southwest Texas but of a big part of Northeastern Mexico. With the development of the ports of Tampico, Galveston and other Gulf ports, Point Isabel was abandoned and the channel filled in until it could no longer be navigated even by craft of shallow draft. It has remained in that condition for many years.

As a preliminary step toward the re-opening of the port the Rio Grande Railroad, which now connects at Brownsville with the St. Louis, Brownsville & Mexico and the National Railways of Mexico, was re-built during the past year.

John Jacobson of Galveston who has the contract for dredging the channel will start work early in May, it is stated. The contract calls for a channel 18 feet deep and 400 feet wide over the bar, the length of this segment being about a mile. This will connect with an inner channel 16 feet deep and 100 feet wide about two and a half miles in length, terminating in a basin 500 by 500 feet. Terminals are to be built along this basin by the Rio Grande Railroad, and are to be ready when the new channel is completed.

### Shipbuilders Unite for Progress.

The Atlantic Coast Shipbuilders Association, 1701 Walnut St., Philadelphia, Pa., announces that it is now 100 per cent representative of the shipbuilding industry along the Atlantic seaboard and the Gulf of Mexico, the Federal Shipbuilding Co., Kearny, N. J., which has just become a member, completing the roll. Every big shipyard on the Atlantic and Gulf coasts is now a member, according to Clarence Samuel King, secretary, who adds, however, that membership is not confined to builders of large vessels, as dry dock and marine repair plants constitute a large portion of it. Every branch of the industry is represented, including construction and maintenance of steel and wood vessels, yachts, river craft, marine engines, etc. Thus, it is stated the close relationship that now exists among the shipbuilders of the country enables them to act unitedly to place the industry on a permanent basis and to remedy conditions which retard American maritime progress. The annual meeting of the Association is to be held in Philadelphia, May 14.

## GOOD ROADS AND STREETS

### West Virginia Wants Bids on 176 Miles Roads.—Will Also Build Number of Bridges—Proposals Received May 1.

Charleston, W. Va.—Sealed proposals for the construction of a number of road projects embracing various counties and covering a mileage of 176.15, and for building a number of bridges in several counties, will be received by the State Road Commission, E. B. Carskadon, secretary, at its office in this city on May 1.

The roads include 26.1 miles in Fayette County, divided among four projects; 21.40 miles in Greenbrier County, divided among 7 projects, and 1.25 miles in Greenbrier and 4.75 miles in Summers County, one contract to cover the last two projects. There will also be 5 miles on 2 other projects in Summers County, in Kanawha County there will be 28.7 miles covering 6 projects; 28.8 miles in Raleigh County, covering 5 projects; 1.5 miles in Logan, and 6.9 miles in Mingo County, one contract to cover both projects.

In McDowell County there will be 7 miles, and in Wayne County, 5.8 miles; 1 mile in Calhoun County; 2.5 miles in Jackson County; 3 miles in Roane County; 1.5 miles in Tyler County; 1.55 miles in Pleasants County, covering 4 projects. One contract, covering 2.5 miles in Harrison County and 4.5 miles in Taylor County, will be awarded. There will also be 5 miles in Harrison County covering 2 other projects; 5 miles in Pendleton County, 4.1 miles in Jefferson County, and 3.5 miles in Pocahontas County, covering 3 projects. In Monroe County, there will be 4.8 miles covering 3 projects.

The following bridges will also be built: Jennies Creek Bridge, in Wayne County, 120-foot, steel through truss with ashlar masonry or concrete substructure; Midkiff bridge in Lincoln County, 160-foot, steel through truss; Moorehead bridge, 120-foot steel through truss on ashlar masonry or concrete substructure, Lee bridge, 150-foot steel through truss on reinforced concrete substructure, and McClung bridge, 120-foot steel through truss on ashlar masonry or concrete substructure, all in Wirt County.

In Brooke County, four concrete slab culverts will be constructed, each with an approximate span of 10 feet. Salt Lick bridge in Braxton County, will be built with a 70-foot steel pony truss on an ashlar masonry substructure, and the Limestone Run bridge in Harrison County will be built with a 75-foot concrete arch. Petersburg Gap bridge in Hardy County, consisting of one 200-foot steel through truss and one 80-foot steel pony truss will be built on ashlar masonry or concrete substructure. In Pendleton County, the Upper Tract bridge consisting of a 200-foot steel through truss will be constructed on an ashlar masonry or concrete substructure.

Proposals for all work will be received only upon State standard forms in accordance with plans, specifications and estimates of quantities which may be obtained from the office of the division engineer in whose territory the proposed construction is located, or from the office of the State Road Commission at Charleston.

### Georgia to Build Roads and Bridge at \$409,000.

Waycross, Ga.—Surveys are being made on 3 road and 1 bridge projects in Ware County, for which the State Highway Department at Atlanta, plans to invite bids soon. These projects include construction on the Waresboro road to cost \$90,000; Iron Bridge road, \$126,000; Waycross-Manor road, \$100,000, and the Satillo river bridge on the Waycross-Blackshear road, \$93,000.

H. M. Pafford is the State Highway Engineer, with offices in Atlanta.

### Duval County to Vote on \$2,550,000 Road Bonds—To Build Over 87 Miles.

Jacksonville, Fla.—An election has been called for May 15, by the Board of County Commissioners, for the purpose of voting on \$2,550,000 bonds for road improvement, as follows: St. Augustine road No. 1, 19.968 miles; Atlantic boulevard No. 2, 15.853 miles; King's road No. 3, 10.254 miles; Main street road, No. 4, 12.83 miles; Orange Park road No. 5, 7.756 miles; Baldwin-Maxville road No. 23, 7.20 miles; San Jose boulevard No. 26, 5.51 miles; First avenue No. 66, .585 miles; Third street No. 91, 1.50 miles; Edgewood avenue No. 12, .773 miles, and Moncrief road No. 9, 5.521 miles.

In addition to the roads enumerated, three others have been listed for construction from any surplus that may remain from the bond issue. These include Old Orange Park road No. 8, from Edgewood avenue No. 12 to a connection with Orange Park road No. 5; Mandarin road No. 17 from the junction with St. Augustine road No. 1, to Julington Creek, and Gainesville road No. 7 from the end of the brick paving on Lackawanna avenue road, No. 10 to Maxville.

C. S. Coe, the county engineer has been directed to prepare final plans and specifications for the construction of the 11 roads first mentioned, and surveys are now under way.

### Kentucky Lets Contracts for 22 Miles of Road to Cost \$856,000—Bridge Contract Awarded.

Frankfort, Ky.—Contracts have been awarded by the State Highway Commission for the construction of 3 sections of roads to cost \$856,511, in the aggregate.

These include 8 miles of rock asphalt on the Jackson Highway in Bullitt and Spencer Counties, and six miles of rock asphalt road in Nelson County, for both of which the Wilmore Construction Company received contract at \$374,530 and \$229,246, respectively. Mills & Connelley, Brooksville, Ohio, were awarded contract at \$252,726, for building 8 miles of concrete on the Dixie Highway in Grant County, between Dry Ridge and the Kenton County line.

Contract for the construction of a bridge over Livingston Creek on the Caldwell-Crittenden line was awarded to Moore & Nelson of Hopkinsville, Ky., at \$6723.

### Bids Opened for Roads Connecting Highways of Virginia with North Carolina System.

Richmond, Va.—Low bids for the construction of two sections of roadway to connect Virginia's highway system with that of North Carolina, have been announced by the State Highway Commission as follows: For building 7.86 miles of concrete road from Franklin to the North Carolina line in Nansemond County, the Harrison Engineering Construction Company of Buffalo, N. Y., is low bidder at \$290,645.

The Southern Construction Company of Petersburg, Va., is low bidder at \$169,069 for building 6.13 miles of concrete base and asphalt top between Clarksville and the North Carolina line in Mecklenburg County, and for the same section of concrete, built according to regular specifications, Smith Brothers of Dallas, Tex., are low bidders at \$227,497.

### Highlands County Road Unit to Cost \$375,000.

Avon Park, Fla.—Bids for the construction of the north and south unit of Highlands County's road system will be received by the County Commissioners until April 30. This unit will cost about \$375,000 and will extend from Polk County line north of Avon Park to Glades County, by way of Sebring, De Soto City, Lake Stearns, Hicoria and Venus. It will be built with a 6-inch rock base compacted and an asphaltic surface.

### Mississippi Will Contract for 272 Miles of Road on a Program to Be Carried Out This Year.

Jackson, Miss.—Road and bridge construction for which contracts will be awarded this year by the State Highway Department, will involve a total of 272 miles of roads and 1 bridge. Of these, contracts will be awarded prior to July 1, for 131.2 miles of road and 1 bridge, and after July 1, for 141.6 miles of road. Contracts prior to July 1, will include the following:

Thirteen miles of concrete road in Jackson County, 16 miles of gravel in Grenada, 11.6 miles of gravel in Tate, 1.7 miles of concrete and gravel in Oktibbeha, 7.6 miles of gravel in Warren, 7.6 miles of graded road in Grenada, 13.4 miles of gravel in Carroll, 9.7 miles of gravel in Alcorn, 18.6 miles of gravel in Franklin, 1.8 miles of gravel in Lafayette, 8.5 miles of gravel in Claiborne, 19.7 miles of concrete in Monroe and 13 miles of graded road in Webster County. In Leflore County, a bridge will be constructed over the Yazoo River at Greenwood.

Contracts to be awarded after July 1, will include 16.9 miles of gravel in Tishomingo County, 8.3 miles of concrete in Washington, 24.2 miles of graded road in Calhoun, 12.3 miles of gravel in Montgomery, 21 miles of gravel and concrete in Yalobusha, 4.7 miles of gravel in Lauderdale, 30 miles of gravel in Hancock, 1.7 miles of concrete in Harrison, 3 miles of concrete in Rankin, 3 miles of gravel in Oktibbeha, 8.9 miles of gravel in Kemper, and 7.6 miles of gravel in Covington County.

H. C. Dietzer, is the State Highway Engineer, with offices in this city.

### Palo Pinto County Will Expend \$1,500,000 for Lateral Roads and State Highway—To Construct Over 117 Bridges and Drainage Structures.

Mineral Wells, Tex.—A road building program involving the expenditure of \$1,526,407 for the construction of 30.86 miles of lateral roads and 40.88 miles on state highway No. 1, will soon be undertaken by Palo Pinto County. Funds will be available from the proceeds of a recent bond issue, supplemented by state and federal aid allotted by the State Highway Commission.

The mileage on state highway No. 1 is divided into five projects and will cover the highway from the Parker County line on the east through Palo Pinto County to a point near Posideon. Construction will consist of a 12-inch macadam base with a bituminous topping, for which \$1,057,132 has been allotted.

More than 117 bridges and concrete drainage structures will be built, among which will be a 242-foot girder type reinforced concrete bridge near Strawn, as well as others of similar design and length. Guy W. Courter is the county engineer.

### Sumter County Will Build 20.18 Miles of Road to Cost \$590,000.

Sumter, S. C.—Contracts have been awarded by the Sumter County Permanent Roads Commission for building three roads having an aggregate mileage of 20.18 and costing \$591,514. Slattery & Henry of Greenville were awarded contract at \$230,683 for building 8.16 miles of the Wedgfield road, and for building 7.89 miles of the Oswego road contract was awarded to Prichard, Raines & Hazelhurst of Savannah, Ga., at \$231,529. The Powell Paving Company of Columbia received the contract at \$129,302 to build 4.13 miles of the Paxville road.

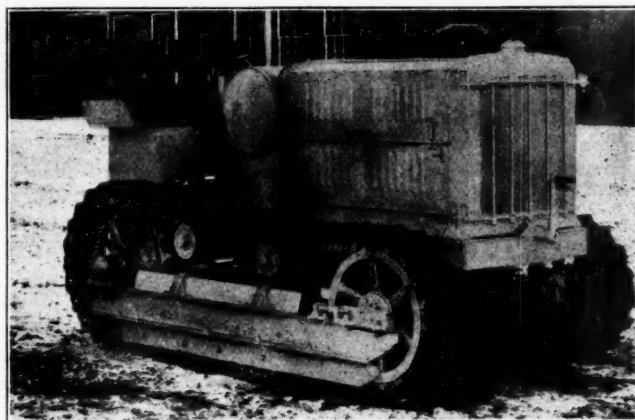
On the Oswego road, the contract provides for the construction of creosoted timber bridges and on the Paxville road, one large concrete bridge will be built.

## MECHANICAL

### An All-Around Tractor.

A new tractor of the Bates "Steel Mule" line and which is its latest addition, is shown in the accompanying illustration. It is known by the number "40" and it has a liberal range of speed for all classes of work; it has four speeds forward, viz. 1.4 miles per hour, 2 1-3 miles per hour, 3.5 miles per hour and 5.75 miles per hour.

"When a tractor is at work on a job," say the builders of this new machine, "it becomes the pace-setter for the rest of the work. The '40' can work at a faster pace because it has more operating speeds for each class of work.



THE NEW TRACTOR READY FOR SERVICE.

An operator can start at the low speed on any job and then shift into as high a speed as the job will stand; there is always a slightly increased speed into which you can shift." Thus the two slow speeds can be used for heavy work while the two higher speeds can be used for lighter work.

The machine has over 6500 pounds drawbar pull and yet it possesses the economy and low operating cost of a medium-sized tractor and although it has the strong pull when required, it is not too heavy to operate most economically when working with the average load. In most places, it is remarked, it can take the place of either a large or a medium machine. The weight of 8500 pounds is carried on a crawler type traction area of 1680 square inches giving maximum power, and yet it will not injure roads. The Midwest motor is used on this tractor and has over 55 brake horsepower. It has a 3-inch crankshaft and oil pressure control whereby the oil supply to the bearings is controlled by the load on the tractor instead of by the speed. The motor has an oil air-cleaner, the air passing through wire wool kept saturated with oil from a reservoir. Ignition is by a Bosch magneto. The brake pedals have locking mechanism to hold the machine on grades. Crawler truck wheels and front idler wheels are steel. The crawlers themselves are also of steel. The machine has great clearance, the lowest part being 14 inches above the ground.

This new tractor is built by the well known and long-experienced Bates Machine & Tractor Co., Joliet, Ill.

### Bids Until May 1 on \$3,000,000 Hotel.

Louisville, Ky.—Bids for the construction of the hotel which the Citizens Hotel Company plans to build here will be received until May 1. The structure will be 124 by 150 feet, 18 stories and basement, of steel and hollow tile, with concrete foundation and concrete slab and composition roof. The floors will be of concrete and hardwood. A high pressure steam heating system will be installed.

Brinton B. Davis of Louisville is the architect.

# Construction Department

## EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

## DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

### Bridges, Culverts and Viaducts.

Fla., Dade City—Pasco County Commrs. let contract to Luton Bridge Co., York, Pa., at \$37,857, to build 8 bridges on Highlands and Coast roads, including the following: Over Kibbler Slough on Coast Road, near Hancock Place on Road No. 6, over Cypress Creek, and over Hillsborough River on Road No. 2.

Fla., Green Cove Springs—For full details see Road and Street Construction.

Fla., Marianna—For proposal details see Mch. Wanted—Bridge Construction.

Fla., Miami Beach, Sta., Miami—For full details see Water Works.

Fla., Tampa—State Road Dept., Tallahassee, Fla., plans expending \$60,000 to build reinforced concrete bridge across Hillsborough River on State Road No. 5; also plans widening 12 mi. road between Riverview and Six Mile Creek, on Road No. 5, to 16 ft.; appropriated \$250,000.

Fla., West Palm Beach—For full details see Road and Street Construction.

Ga., Waycross—For full details see Road and Street Construction.

Ky., Pikeville—Pike County Fiscal Court plans building 4 bridges as follows: Foot bridges across river at Pikeville and Coal Run; \$45,000 bridge across Russell Fork, above junction with Levisa; another at mouth of Lick Creek, farther up Levisa.

Ky., Princeton—For full details see Road and Street Construction.

Ky., Wickliffe—Ballard County Fiscal Court plans constructing 8 steel bridges, and build several miles of gravel road. Address County Commrs.

Miss., Canton — For proposal details see Mch. Wanted—Bridge Construction.

Miss.—State Highway Dept., H. C. Dietzer, Engr., Jackson, Miss., will let contract prior to July 1, to build bridge over Yazoo River, at Greenwood, Leflore County, Proj. 156.

Mo., Franklin—Township plans building Boonville Bridge; contemplates voting on \$25,000 bonds. Address The Mayor.

Mo., University City—For full details see Sewer Construction.

N. C., Danbury—Stokes County Highway Comsn., will receive bids until May 16 to construct 4 small bridges as follows: On Walnut Cove-Germantown road; in Belevs Creek section, and 2 in Yadkin Township on Chestnut Grove road.

N. C., Troy — Montgomery County Road Trustees, will bridge 2 bridges. For full details see Road and Street Construction.

N. C., Winston-Salem—For full details see Road and Street Construction.

Okla., Muskogee—For full details see Road and Street Construction.

Okla., Pauls Valley—City Commrs. let contracts totaling \$50,000 for following improvements: to Ajax Construction Co., Oklahoma City, to construct 3 cement bridges over Rush

Creek, on roads leading out of city to replace wooden structures; to Oklahoma City Electrical Co., for white way, and to Gibson & Mitchell, Pauls Valley, to extend Rush Creek drainage system through city.

South Carolina — State Highway Comsn., Chas. H. Moorefield, Engr., plans building 3 bridges, and appropriated funds as follows: Lancaster County, reconstruct 2 bridges on Route No. 26, \$25,000; Newberry and Fairfield counties, bridge over Broad River near Strother, \$75,000.

S. C., Abbeville—Abbeville County plans building Calhoun Falls Bridge, on Calhoun Falls Road; \$30,000; Federal Aid granted \$15,000, County to pay \$15,000. Address County Commrs.

S. C., Gaffney—For full details see Road and Street Construction.

Tex., Colorado—Colorado County, J. C. Hall, County Judge, plans 1280-ft. reinforced concrete bridge over Colorado River on S. H. No. 1; asks \$2380.02 additional aid; F. F. DuBose, County Engr.

Tex., Dallas — For proposal details see Mch. Wanted—Underpass Construction.

Tex., Hallettsville — For full details see Road and Street Construction.

Virginia—State Highway Comsn., H. G. Shirley, Chmn., Richmond, Va., received low bids to construct 2 reinforced concrete bridges in Tazewell County as follows: 178-ft., over Clinch River, Lilly & Baldwin, Bluefield, W. Va., at \$15,078.24; 38-ft., over Pounding Mill Branch, Luton Bridge Co., Knoxville, Tenn., at \$4415.70. (Lately noted.)

Va., Richmond—Boulevard Bridge Co., E. T. D. Myers, Jr., Prest., will receive bids soon to construct bridge across James River from point in Chesterfield County near city limits to point at eastern line of Byrd Park, \$150,000; construction under supervision of Allen J. Saville, Director of Public Works.

W. Va., Lewisburg—For proposal details see Mch. Wanted—Bridge Construction.

### Canning and Packing Plants.

Ky., London—Laurel County Products Co., inceptd. by W. A. Pennington, J. B. Johnson and others.

Mo., St. Louis—M. Courtney Packing Co., capital \$35,000, inceptd. by C. N. Drake, M. Courtney, F. J. Kendall.

Mo., Springfield — Banfield Bros. Packing Co., 1860 N. Boulevard, will erect killing and chilling bldg. at Glenstone Rd. and Mill St.

W. Va., Fairmont—Fairmont Provision & Packing Co., inceptd. by M. A. Jaliff, John Hagen, H. P. Meighan.

### Clayworking Plants.

Fla., Orlando—Orlando Clay Products Co., capital \$120,000, inceptd. with L. E. Serviss, Prest.; T. W. Brokaw, Secy.

Tex., Fort Worth—Athens Pottery Co., Inc., capital \$314,000, inceptd. by P. E. and J. B. Miller, Paul Hable.

Va., Richmond—Richmond Clay Products Corp., capital \$65,000, inceptd. with Brocken-Lamb, Prest.; R. W. Carrington, Secy.

### Coal Mines and Coke Ovens.

Ky., Dalna—Letcher County Mining Co. will erect tippie, etc.; will soon let contracts.

Ky., Louisville — Downard-Manning Coal Co., capital \$24,000, inceptd. by C. Paul Downard, Elmore Manning and others.

Ky., Louisville—Phoenix Fuel Co., increased capital to \$250,000.

Ky., Praise—Pool Point Coal Corp. (lately noted inceptd., capital \$25,000) organized with R. V. Wohlford, Prest.; W. T. Wohlford, Secy.-Mgr.; Logan Wallace, Jr., V. P. and Treas.; will develop 135 acres coal land, daily output 150 tons; install mch., bids open June 1. (See Mch. Wanted—Mining Machinery; Motor.)

Mo., Kansas City—Elmira Coal Co., capital \$200,000, inceptd. by A. G. Widmer, J. B. Delaney, D. E. Neibel.

Virginia—Blue Ridge Diamond Coal Co., Whitesburg, Ky. will develop several thousand acres coal lands in Big Black Mountain section of Lee County; will also install saw mill to mfr. lumber for building of industrial towns, etc.

W. Va., Charleston—Faith Pocahontas Coal Co., C. H. Meade, of Beckley, W. Va. will develop several thousand acres smokeless coal land on the Millam Fork Branch of the Virginian Ry.

W. Va., Clarksburg—Bailey-Spraker Coal Co., capital \$25,000, inceptd. by K. D. Bailey, E. L. Spraker, Harry W. Sheets.

W. Va., Clarksburg—Evert Coal Co., capital \$25,000, inceptd. by O. L. Karichoff, J. A. Farrell and Karl G. Davis.

W. Va., Tunnelton — Blake-Towson Coal Corp., capital \$125,000, chartered by G. C. Blake, Tunnelton, Nora A. Towson, Kingwood, W. Va.

### Concrete and Cement Plants.

Mo., St. Joseph—Claud H. Light, of Garden Grove, Iowa, interested in organizing \$500,000 company to mfr. sandless cement.

Tex., Fort Worth—Southwestern Portland Cement Co., C. Leonardt, Prest., of Los Angeles, Cal. has acquired 600 acre site on the Sycamore Creek, will erect \$1,250,000 cement manufacturing plant; initial capacity between 2500 and 3000 bbls. daily.

### Cotton Compresses and Gins.

Miss., Poplarville—For full details see Electric Light and Power Plants.

Okla., Hugo—Rosenbum Gin Co., capital \$25,000, inceptd. by M. B. Rosenbum, R. E. Horman, both of Hugo; Ott Reeves, Ada, Okla.

Tex., Breckenridge—Frank Kell of Wichita Falls will erect \$20,000 cotton gin.

Murrison, Mgr. will establish ginning plant Tex., Dorchester — Farmers Gin Co., A.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

with daily capacity 40 bales. Lately noted. (See Mch. Wanted—Gin Supplies; Tanks; Deep Well Supplies.)

Tex., Laredo — Farmers Gin Co., capital \$10,000, inctpd. by C. O. Guinn, J. Vidales and others.

Tex., Lockhart—Lockhart Compress Co. increased capital from \$50,000 to \$100,000.

Tex., Pecos—Electric Gin Co., lately noted inctpd. with \$15,000 capital, organized with D. W. Bozman, Prest.; A. G. Taggart, Secy.-Treas.; will erect cotton gin with daily capacity 75 bales cotton; 71x22 ft.; fireproof; Geo. Bruce, Contr., Toyah, Texas; Continental Gin Co., Dallas, Tex., machinery contrs.

Tex., Shiner—Shiner Farmer's Co-operative Gin & Mill Assn., capital \$10,000, inctpd. by J. H. Elsik, J. Bohman and H. F. Ehlers.

### Drainage Systems.

Fla., Broward County—Carl P. Weidling, Fort Lauderdale, Fla. and others, interested in organizing Pompano Special Drainage Dist. embracing about 16 sq. mi. in northern part of Broward County.

Miss., Yazoo City—Yazoo County Board of Supvrs. has organized the Rocky Bayou Drainage Dist. to reclaim 20,000 acres land, located south of Yazoo City and covers territory bounded by Short Creek and O'Neal Creek; J. B. Williams, Engr.

Mo., Clayton—St. Louis County Supvrs. have organized the Creve Coeur Drainage Dist. to reclaim approx. 7000 acres land; T. N. Jacob, Engr.

Tex., Houston—For full details see Sewer Construction.

### Electric Light and Power Plants

Ala., Thorsby—Thorsby Light & Development Co., capital \$10,000, inctpd. by A. E. Reagan, C. E. Lucas and Felix Elland.

Ark., Pine Bluff—Arkansas Light & Power Co. increased capital from \$3,750,000 to \$8,000,000; lately noted acquiring properties of Vicksburg Light & Traction Co., Vicksburg, Miss., and Jackson Public Service Co., Jackson, Miss.

D. C., Tacoma Park—Mann-Fink Electric Co., capital \$10,000, inctpd. by Leroy S. Mann, G. Ernest Fink and others.

D. C., Washington—Potomac Electric Power Co. let contract to Stone & Webster, Inc., Boston, Mass., to design and construct 4-bay extension to Benning's Power Station; concrete block and steel frame with concrete roof and floors; additional station equipment includes 3 boilers, one 20,000 K. W. turbo-generator, auxiliaries for same, and ad-

ditional switches and new coal handling equipment.

Fla., Fort George, Mail Mayport—For full details see Land Developments.

Fla., Fulford—For full details see Land Developments.

Fla., Gainesville—For full details see Sewer Construction.

Fla., Jacksonville—City, Frank H. Owen, Comr. of Public Utilities, acquired 5 acres on McDuff Ave. and will erect electric sub station and water reservoir; plans by Scofield Engineering Co., Phila., Pa. (Lately noted.)

Fla., Miami Beach Sta., Miami—For full details see Water Works.

Fla., New Port Richey—For full details see Land Developments.

Fla., Tampa—For full details see Land Developments.

Ky., Pineville—Kentucky Utilities Co., L. B. Herrington, V. P. and Gen. Mgr., reported to be considering erection of \$1,500,000 power plant near Pineville.

La., Gibsland—For full details see Water Works.

Md., Baltimore—For full details see Land Developments.

Miss., Canton—For full details see Water Works.

Miss., Poplarville—Southern Power & Mfg. Co., of New Orleans, La., has taken over city water and light plant will improve and operate; will also install ice plant and cotton gin; E. H. Baringer, Covington, La., Gen. Mgr.

Mo., Brookfield—City will vote on April 30 on \$95,000 bonds to erect and equip electric light plant. Address The Mayor.

N. C., Andrews—Town Percy B. Ferebee, Mayor, will issue \$350,000 bonds for 2500 H. P. hydro-electric development on Hiwassee River for municipal and industrial development; plans and supervision by The Ludlow Engrs., Winston Salem, N. C.; Address George Stillman, Town Clerk.

N. C., Southern Pines—H. A. Lewis, Chmn. of Committee to install electric lighting system on several streets.

N. C., Tryon—Blue Ridge Power Co., O. A. Meyer, Mgr., will erect hydro-electric plant about 12-mi. from Tryon; 90 ft. head-hydro-electric, cost \$750,000; about 2-mi. of transmission line, cost \$125,000; will connect Hendersonville, N. C., Spartanburg, S. C., Greer, S. C. on existing transmission lines; Mees & Mees, Charlotte, N. C., Engr. in charge (lately noted.)

Okla., Pauls Valley—For full details see Bridges, Culverts, Viaducts.

Tenn., Memphis—For full details see Land Developments.

Tex., Edgewood—City voted \$15,000 bonds for electric light plant; Address The Mayor.

Tex., Willis Point—For full details see Road and Street Construction.

### Fertilizer Plants.

Fla., Jacksonville—Non-Acid Fertilizer & Chemical Co., C. W. Deen, Prest., Lakeland. will not erect fertilizer plant as lately reported.

### Flour, Feed and Meal Mills.

Ky., Ashland—Van Hoose Adams Co., E. D. Van Hoose, Mgr. will erect 2 buildings for corn and feed mill; 75x100 ft., 3 story and 34x102 ft., 5 story; brick; Vandyke & Marmon, Archt., Indianapolis, Ind.; Don Dixon, Const. Engr., Ashland. (Lately noted.)

Ky., Lexington — Blue Grass Elmendorf Grain Corp., capital \$200,000 chartered by W. B. Talbert, M. C. Talbert and others.

Miss., Crystal Springs—P. K. Grice, Mgr. of Wise Co., will install grist mill.

N. C., Greensboro—Hill Flour Mills Corp., capital \$300,000, inctpd. by William B. Hill, Roland G. Hill, J. C. Hedgepeth; will erect flour mill on West Lee St.; 6 stories; concrete construction; fireproof; daily capacity 400 to 500 bbls. flour daily; elevators will have capacity of about 75,000 bu.

N. C., Lexington — Grimes Bros., L. M. Grimes, Gen. Mgr. will remodel roller mill and install additional mch.; equipment purchased; daily output of mill 100 bbls.

S. C., Pacolet—Patterson Feed Co., C. L. Gossett, Prest. will increase capital to \$20,000.

Tex., Dallas—W. J. Lawther will soon let contract to construct mill with capacity of 15 cars daily and storage capacity of 180,000 bu. grain.

Tex., Fort Worth—Fort Worth Elevator Co., increased capital from \$1,000,000 to \$1,500,000.

Tex., Greenville—Greenville Mill & Elevator Co., A. F. Richter, Mgr. let contract to Reburn Engineering & Construction Co., Kansas City, Mo., to construct 36x96 ft. warehouse and 46 ft. power house, head house 120 ft. high, tanks, 18x90 ft.; all reinforced concrete construction; daily capacity 600 bbls. corn meal and 150 bbls. wheat flour; cost about \$300,000; contract for mch. let to Nurdyke & Marmon Co., Indianapolis, Ind. (Lately noted.)

Tex., Leonard—W. M. Rogers Grain Co., capital \$20,000, inctpd. by O. S. Ferguson, W. W. Rogers and Ellis Giles.

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MANUFACTURERS RECORD

BALTIMORE, MD.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tex., Seguin—Seguin Milling & Power Co., increased capital from \$175,000 to \$300,000.

### Foundry and Machine Plants.

Fla., Orlando—Piston Rings, etc.—Orlando Mfg. Co., E. J. Jenkins, Prest.-Gen. Mgr., Box 1256, has 50x120-ft. fireproof building; will install lathes, drill presses, hack saws, grinders, piston rings machines, automatic planers, millers, etc., for mfr. of piston rings, pins, connecting rods, etc. (See Mch. Wanted—Machine Shop Equipment; Motors; Oil Burner.)

Tex., Dallas—Castings—Sutton, Steele & Steele, Walter Steele, Prest.-Gen. Mgr. will erect 100x350-ft. structural steel building, costing approx. \$125,000; invite bids; have purchased a 3 phase, 60 cycle, 2200 volt furnace, Moore electromet type, daily capacity 6 tons; has 1½ acres site on Forney Ave.; will specialize in alloy, steel, malleable and gray iron castings; through the rearrangement of present equipment the new plant will house the gray iron foundry now in operation.

Tex., Houston—South Texas Implement & Machinery Co., increased capital to \$185,000, changed name from South Texas Implement & Vehicle Co.

Va., Covington—West Virginia Pulp & Paper Co. reported to acquire established foundry, will operate.

### Gas and Oil Enterprises.

Fla., Tampa—For full details see Land Developments.

Ky., Glasgow—Globe Gasoline Co., capital \$30,000, inceptd. by Robert Carlye, W. J. Oliver, L. W. Jones.

La., Monroe—Sicard Investment Co., capital \$12,500, inceptd. with Dorothy Schulze, Prest.; Chas. Schulze, Secy.-Treas.

La., Shreveport—Red River Refining Co. increased capital from \$1,000,000 to \$3,000,000; will erect lubricating oil refinery.

Md., Baltimore—For full details see Land Development.

Mo., Cape Girardeau—Cape Girardeau Oil & Development Co., capital \$50,000, inceptd. by W. F. Bergmann, H. J. Brinkopf, C. F. Metz.

Mo., Kansas City—Independence Natural Gas Co., capital \$100,000, inceptd. by S. J. Campbell, W. A. Howard, R. B. Swart.

Okla., May—May Investment Co., capital \$10,000, inceptd. by R. O. Allen, A. M. Strate, and C. W. Latta.

Okla., Tulsa—Aeco Oil Co., capital \$50,000, inceptd. by C. L. and C. C. Anderson, both Tulsa; W. Y. R. Brooks, Okmulgee.

Okla., Tulsa—Homer A. Orcutt Oil and Gas Co., capital \$50,000, inceptd. by Dean and Homer A. Orcutt, W. Reed, Jr.

Tenn., Memphis—For full details see Land Developments.

Tex., Austin—Luling Production Co., capital \$30,000, inceptd. by C. E. Anderson, Jr., B. Albright and G. L. Cardwell.

Tex., Beeville—Pratt-Hewitt Oil Corp., capital \$5,000,000, chartered by J. W. Kukuk, Lamar Folda, both Beeville; R. H. Hawn, Refugio, Tex.

Tex., Dallas—Clancy-Fielder Drilling Co., capital \$10,000, inceptd. by D. B. Fielder, R. D. C. Clancy and others.

Tex., Houston—Sunset Petroleum Co., increased capital from \$30,000 to \$100,000.

Tex., Laredo—Misko Refineries, capital \$200,000, inceptd. by O. W. Killam, S. F. Coblentz and others.

Tex., Waco—Home Oil Co., capital \$15,000,

inceptd. by R. V. McClain, J. B. McCauley, Floyd Casey.

W. Va., Beckley—Mott Core Drilling Co., capital \$50,000, inceptd. by B. H. William, J. Mott and others.

W. Va., Weston—J. K. Harsha Drilling Co., capital \$10,000, inceptd. by J. K. Harsha, T. M. Barnes, C. B. Lewis.

### Ice and Cold-Storage Plants.

Ala., Parrish—Frank Bruce and others have organized company to establish plant for mfr. of ice.

Fla., Tampa—Hyde Park Ice Co., capital \$50,000, inceptd. with T. J. Sculley, Prest.; A. V. Hale, V. P. and Secy.

Ga., Sylvester—B. M. Sumner has acquired building will remodel for cold storage plant.

Miss., Poplarville—For full details see Electric Light & Power Plants.

S. C., Walhalla—Oconee Apple Growers' Assn., D. E. Good, Prest. contemplates erecting cold storage and packing house.

### Land Developments.

Ala., Fairfield—City, M. W. Pratt, Mayor, votes May 2 on \$60,000 bonds park purchase. (Lately noted).

Fla., Altamonte Springs—Peerless Fern Co., capital \$200,000, inceptd. with S. Lee Phillips, Prest.; James A. Cotting, Secy.-Treas.

Fla., Delray — C. A. B. Zook, Prest. of Pennsylvania Soap Co., Lancaster, Pa. acquired 37 acres of muck land at Delray, between canal and the ocean and will develop in cocoanut grove; will plant 120,000 trees; cocoanuts grown will be used in the mfr. of soap at plant at Lancaster; build radio stations, etc. See Telephone Systems.

Fla., Fort George, P. O. Mayport—Fort George Corporation, lately noted inceptd. with \$25,000 capital, Victor Blue, Prest., Horatio N. Parker, Secy.; will develop 208 acres in Fort George Island, for Army and Navy Country Club of Florida in golf links, etc.; install electric lights; artesian well water supply; septic tanks, etc.; erect clubhouse, cottages, etc.; amount to be expended \$50,000.

Fla., Fulford—Atlantic Realty Co., C. A. McMickle, Prest.; M. H. Thomas, Secy.; Miami, Fla., will develop 200 to 1000 acres land for subdivision; install electric lights; water works; roads and streets and other city improvements.

Fla., Key West—For full details see Road and Street Construction.

Fla., Key West—Chamber of Commerce let contract to Langford & Moreau, Golf Archts., Chicago, Ill., to plan development of golf course on Stock Island.

Fla., Lake Wales—Caldwell-Temple Improvement Co., capital \$75,000, inceptd. with Frank H. Caldwell, Prest.-Treas.; Morris E. Temple, Secy.

Fla., Lake Wales—Thulbery Brothers, Inc., capital \$50,000, chartered with Clarence C. Thulbery, Prest.; Jay Burns, Jr., Secy.

Fla., Miami—Eaton Real Estate & Investment Co., capital \$100,000, inceptd. with Charles M. Eaton, Prest.; Katherine Parkhurst, Secy.-Treas.

Fla., New Port Richey—Old Grove Co., lately noted inceptd. with \$50,000 capital, organized with Warren E. Burns, Prest., 118 E. 27th St., New York, G. H. Lohnes, V. P., New Port Richey; will develop 74 acres; will install electric and gas lights; water works and roads and streets.

Fla., Tampa—Beach Park Co., capital \$500,000, inceptd. with R. W. Trice, Prest.; John Adams, Secy.; will develop 300 acres for subdivision; will construct approx. 1 mi.

of reinforced concrete sea wall and fill on the bay shore with boulevard on waters edge; plans also include motor boat and yacht basin; recreation pier, development of private bathing beach; asphalt streets; electric lights; gas; water; sewers.

Ky., Ashland—James E. and John B. King will develop 24 acres for subdivision.

Md., Baltimore—Bates Realty & Investment Co., 709 Union Trust Bldg., capital \$100,000, inceptd. by Frank Merin, Max Cohen and others.

Md., Baltimore—Beverly Hills Corp., Lawrence Schoenlein, Jr., Prest., 3535 Liberty Heights Ave., acquired 50 acres site on Harford Road at Montebello Ave., and will develop for homesites; install gas, electric lights, sewer, water, roads.

Md., Brooklyn, Sta. Baltimore—Brooklyn Home Realty Co., 1st St., capital \$50,000, inceptd. by John H. Geis, Herman C. Stoll, Henry F. Kuehule.

Miss., Hazlehurst—Hazlehurst Park Assn., inceptd. by G. W. Covington, H. J. Wilson and I. N. Ellis.

Mo., Kansas City—Wyma Real Estate & Mortgage Co., capital \$50,000, inceptd. by E. L. Hudson, F. G. Palmer, Charles T. Moyle.

Mo., St. Louis—Virginia Realty & Investment Co., 5318 Virginia Ave., capital \$20,000 inceptd. by Louis Toeninketter, A. C. Groening and J. W. Renz.

Mo., St. Louis—John P. Dolan Realty Co., inceptd. by R. D. and A. F. Dolan, Helen G. Walsh.

Mo., St. Louis—Holdoway Construction Co., inceptd. by W. J. and J. G. Holdoway, W. A. Houston.

Mo., St. Louis—E. A. Laumann Realty Co., 6200 Easton Ave. acquired 158 acres on Chambers St.; will develop for subdivision.

Mo., St. Louis—Unit Realty & Investment Co., inceptd. by Sol Goldman, F. W. Wolfe, and others.

Mo., St. Louis—Market Realty & Investment Co., inceptd. by John Kotner, Jack M. Cohen and Robert Scissors.

Mo., University City—For full details see Sewer Construction.

N. C., Charlotte—City View Realty Co., capital \$25,000, inceptd. by J. P. Sisemore, T. C. Cole and J. J. Jones.

N. C., Charlotte—E. S. Draper, Landscape Archt. and City Planner, 11 E. 5th St., has been retained by Clemm Wrenn, of North Wilkesboro, N. C., for development of 20 acre wooded estate; also to make surveys, plans and details for development of residential property for Chas. E. Lambeth, Myers Park, Charlotte.

Okla., Pauls Valley—City voted \$15,000 park bonds. Address The Mayor.

Okla., Tulsa—W. T. Brady acquired 160 acre site to develop subdivision.

Okla., Tulsa—Mills Fruit Co., capital \$125,000, inceptd. by Solon Aakhus, Tulsa; J. W. Booker and others Oklahoma City.

S. C., Pickens—Table Rock Club, capital \$10,000, inceptd. with James P. Carey, Jr., Prest.; W. H. Chastain, Secy.; develop real estate.

Tenn., Memphis—City will develop 18-hole golf course. Address The Mayor.

Tenn., Memphis—Land Improvement Co., Inc., capital \$15,000, chartered by H. E. Humphreys, John R. Kinnie, Julian Rothschild.

Tenn., Memphis—H. W. Brennan will develop 256 acres on Poplar and Highland Sts.; will develop for subdivision; construct roads, install water, electric lights, sewers, gas,

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telephone system, etc.; H. H. Miller, C. E. in charge of engineering work.

Tenn., Memphis—Ben Lang and associates have acquired 65 acres, will develop for subdivision.

Tex., Ballinger—Ballinger Realty Co., capital \$7500, inceptd. by F. M. Pearce, C. L. Baker and A. J. Thorpe.

Tex., Dallas—For full details see Water Works.

Va., Newport News — Washington Ave. Realty Corp., capital \$200,000, inceptd. with Harry Nachman, Prest.; Rena Nachman, Secy.

Va., Norfolk—J. Wiley Halstead acquired 50 acre tract and will develop for suburban homesite.

### Lumber Manufacturing.

Ala., Tusculumbia—Colbert Lumber Co., Inc., chartered by H. S. Sargent, W. L. Stanley and I. W. Delony.

Ala., Vinegar Bend—Verda Lumber Co., inceptd. by E. H. and A. R. Turner, and others.

Fla., Southport—Graham-Campbell Lumber Co., capital \$10,000, inceptd. with H. L. Graham, Prest.; O. L. Graham, Secy.

Mo., Bismark—Black River Lumber Co., capital \$10,000, inceptd. by W. L. and R. L. Jones and others.

Mo., Ellington—Central Lumber Co., organized by E. E. Roberts, William Moore and Ben Copeland.

Mo., St. Joseph—J. D. Hollingshead Co., capital \$40,000, inceptd. by F. R. Bogart, M. A. Bruce, F. I. Letty.

N. C., Seagrove—Lucas Lumber Co. has purchased 2000 acres stumpage, will erect mills; probably install small planer at Seagrove. (Lately noted inceptd., capital \$50,000.)

Okla., Muskogee—Zwolle Lumber Co., capital \$36,000, inceptd. by W. B. Lowry, J. C. Horan, both Zwolle, La.; C. B. Allen, Muskogee.

Okla., Okmulgee — Builders Lumber Co., capital \$60,000, inceptd. by M. A. Wilder, I. S. Warren, W. L. Hamilton.

Okla., Ponca City — McGraw Baughman-Bearley Lumber Co., capital \$2,000,000, incorporated by F. D. Bearley and W. H. P. Trudgeon, both Oklahoma City; J. J. McGraw, Tulsa, Okla.

S. C., Lugoff—Beam Lumber Co., J. A. Rudisill, Treas. will erect \$30,000 plant. construction by own forces; install large size circular sawmill, planer, rip and resaw, immediate delivery. Lately noted. (See Mch. Wanted—Circular Saw Mill, etc.)

S. C., Spartanburg—Spartanburg Lumber Co., L. D. Proffitt, Prest.; contemplated increasing capital to \$50,000.

Tex., San Antonio—Jene Briscoe Lumber Co., increased capital from \$20,000 to \$35,000.

### Metal-Working Plants.

Ala., Montgomery—National Record Resurfacing Co., capital \$100,000, inceptd. by Edward Halls, R. E. Seibels and others.

Ky., Bellevue, Sta. Newport—Hydro-High Vacuum Pump Co. increased capital from \$10,000 to \$25,000.

Ky., Newport—Blue Flame Gas Burner Co., inceptd. by Albert Stephany, Joseph Gaff Andrews and Frank V. Benton.

Miss., Hattiesburg—Illumino Sign Co. increased capital from \$50,000 to \$100,000.

Mo., Kansas City—William C. Moeller, Inc., capital \$20,000, chartered by W. C. Moeller, W. L. Davidson, E. M. Frederick.

Mo., St. Louis—Moark Metal & Supply Co., capital \$50,000, inceptd. by H. L. Green, M. Oleon, Max G. Baron.

Tex., Waco — Frezo Cabinet Co., capital \$100,000, inceptd. by A. P. McClendon, C. R. Turner, J. H. Coffield.

Va., Fredericksburg—Sanitary Dispensing Machine Corp., capital \$50,000, inceptd. with C. W. Jones, Prest.; A. Stuart Jones, Secy-Treas.

### Mining.

Mo., Joplin—Russell-Gordon Development Co., Bartlett Bldg., capital \$50,000, inceptd. by C. R. Warden, J. H. Greninger, W. A. Roby.

Tex., Stiles—Potash—Pennsylvania Drilling Co. contemplate developing potash deposits; making explorations preparatory to begin mining.

W. Va., Fairmont—Fairmont Sand Co., capital \$50,000, inceptd. by Dalton D. Simon, S. C. Board and D. W. Carpenter.

### Miscellaneous Construction.

Ark., Eldorado—Incinerator—For proposal details see Mch. Wanted—Incinerator.

Fla., Tampa—Sea Wall, etc.—For full details see Land Developments.

Md., Baltimore—Elevator — Baltimore & Ohio R. R. Co., H. A. Lane, Ch. Engr., let contract to M. A. Long Co., Horn Bldg., Guilford and Fayette Sts., Baltimore, to erect \$3,000,000 grain elevator; cost including pier improvements and yard changes \$5,500,000; concrete construction; located approx. 500 ft. from water front to permit use of loop-track lay out by means of which loaded cars will be delivered at west end of structure and empties taken away by gravity at east end; storage capacity of bins are 3,000,000 bu. and provision will be made for construction of additional bins with capacity of 6,000,000 bu., independent of work house capacity of 800,000 bu.; foundations under construction and will be completed in one month according to present plans; L. A. Stinson, Consit. Engr., Chicago, Ill.; construction under supervision of Mr. Lane and L. P. Kimball, Engr. Bldgs., B. & O. R. R. Co. (Other details lately noted.)

Md., Williamsport—Dam—U. S. Engr. Office, 250 Old Land Office Bldg., Washington, D. C., contemplate constructing dam across Potomac River.

Miss., Greenville—Levee—Mississippi Levee Commrs. let following contracts: to Clark & Aderhaoldt, Natchez, Miss., to build new levee at Cat Fish Point; and to Callahan Construction Co., Dallas, Tex. for enlargement of Greenville front levee. (Bids lately noted.)

Mo., Excelsior Springs—Swimming Pool—John and Jake Maurer have acquired Wales Lake, will construct swimming pool with capacity of 600 bathers; approx. cost \$40,000.

Mo., St. Joseph—Levee—Chamber of Commerce interested in reinforcing bank of Missouri River near Lake Contrary; approx. cost \$8000; Leslie Engineering Co., Engr.

Tex., Houston—Channel, etc.—Port Comsn. B. C. Allin, Director, will begin work on the new facilities on north side of the Turning Basin, invite bids; Government also invite bids for dredging; work includes excavating water front for location of wharves, railroad tracks and approaches, etc. J. C. McVea, City Engr. (Previously noted.)

Tex., Houston—Swimming Pool—Exposition Park, C. W. Elrod, Gen Mgr.; for full details see "Miscellaneous Enterprises."

W. Va., Charleston—Dam—Frank Conklin, Junior Engr., in charge of survey for either rebuilding or repairing of dams 3, 4 and 5 on Kanawha river, will also consider prac-

tibility of power development in combination with navigation.

### Miscellaneous Enterprises.

D. C., Washington—Photographic Laboratory—Bureau of Yard and Docks, Navy Dept., will erect building at Naval Air Station, (Anacostia) work includes plain and reinforced concrete, wood framing, sash, doors, flooring, hollow tile and brick work, prepared roofing, sheet metal work, asbestos wall board, hardware, painting and glazing, vacuum heating, etc.; Spec. 4842.

D. C., Washington—Loomis Publishing Co., capital \$15,000, inceptd. by Mary L. Loomis, George P. Robinson and J. Thomas Frazier.

Fla., Clermont — Clermont Heights Hotel Co., capital \$425,000, inceptd. with R. E. Goodell, Prest.; B. Wofford Wait, Secy.

Fla., Melbourne—Melbourne Building & Investment Co., capital \$150,000, inceptd. with Elton Hall, Prest.; Seth Millikin, Secy-Treas.

Fla., Rockledge—New Indian River Hotel Co., capital \$200,000, inceptd. with Martin A. Metzner, Prest.; H. M. Cogswell, Secy-Treas.

Fla., Valparaiso—Valparaiso Hardware Co., inceptd. with W. L. Manchester, Prest-Secy., G. B. Freeman, V. P.-Treas.

Fla., West Palm Beach—Newspaper Equipment Corp., capital \$50,000, chartered with F. P. Fildes, Prest.; R. H. Daley, Secy.

Ky., Cynthia—Cynthia Construction Co., capital \$40,000 inceptd. by J. W. Snodgrass, R. S. Withers, J. T. Kenton.

Ky., Louisville—Capital Laundry Co., increased capital from \$25,000 to \$100,000.

Ky., Paducah—Paducah Inter-Urban Bus Co., capital \$12,000, inceptd. by W. C. Hunter, W. E. Cochran and R. C. Davis.

Ky., Winchester—Haggard-Payton Supply Co., inceptd. by Gordon A. Haggard, C. P. Paynter and others.

Md., Baltimore — Homewood Plumbing & Heating Co., 3001 Greenmount Ave., capital \$50,000, inceptd. by Phillip E. Reiter, George Foster Maynard, George R. Nake.

Miss., West Point—Times Herald Printing Co., increased capital to \$35,000.

Mo., Hannibal—J. E. Couch Construction Co., inceptd. by J. E. Couch, M. M. Aldrich and F. N. Smith.

Mo., Kansas City—G. Wilse Robinson Sanitarium Co., inceptd. by G. W. Robinson, G. W. Robinson, Jr., and others.

Mo., Kansas City—Equipment Maintenance Co., capital \$10,000, inceptd. by G. A. Walsh, H. G. Kellogg and R. L. Dawson.

Mo., St. Louis—Fairmont Hotel Co., capital \$100,000, inceptd. by J. W. Graves, A. H. Watson, S. G. Rogers.

Mo., St. Louis—Lance Electrical Supply Co., capital \$20,000, inceptd. by S. C. Lance, T. F. Stephens, L. D. Lehw.

Mo., St. Louis—Heavy Hauling & Wrecking Co., capital \$10,000, inceptd. by A. Van Hoffman, T. G. Williams, H. F. Vogel.

Mo., University City—Fire Equipment—For full details see Sewer Construction.

N. C., Tarboro—Pender Hardware Co., John R. Pender, will erect 3 story, 50x125-ft. building.

N. C., Wilmington—Post Publishing Co., capital \$100,000, inceptd. by J. W. Little, Wilmington; J. L. Horne, Jr., of Rock Mount.

Okla., Muskogee — Muskogee Construction Co., capital \$25,000, inceptd. by John Etheridge, E. L. Head, W. H. Davis.

Okla., Muskogee—Benton County Wholesale Hardware Co., Morgan McMichael, Gen. Mgr., Rogers, Ark. will establish general offices

and \$200,000 plant; increased capital from \$700,000 to \$900,000.

Okl., Oklahoma City — The Sanitary Cleaners, capital \$10,000, inceptd. by A. W. and Esther R. Hedge, John H. Holley.

Okl., Tulsa — Charles Welch Engineering Co., capital \$10,000, inceptd. by Charles Welch, Charles E. Zahn, both of Tulsa; J. E. Slusher, Muskogee.

S. C., Columbia — Jefferson Hotel Co., increased capital from \$100,000 to \$300,000.

S. C., Newberry — Newberry Printing Co., capital \$20,000, inceptd. with W. B. Miller, Prest.-Mgr.; H. T. Fellers, Jr., V.-P. and Secy.

Tenn., Chattanooga — Cafeteria — W. H. Moore, Chattanooga and S. W. Shacklett, of Nashville, Tenn. will organize \$250,000 company to establish chain of cafeterias.

Tenn., Nashville — Dr. A. M. Townsend, Cor. Secy. of the Sunday School Publishing Board of the National Baptist Convention of the U. S. A. has final plans for the completion of negro publishing house on 4th and Cedar Sts.; building to be 82x150-ft., approx. cost \$350,000; Marr & Holman, Consult. Engrs., Moses McKissack, Archt.

Tenn., Nashville — Methodist Publishing House has begun construction of plant addition on Demonbreun and 9th Ave., 1 story and basement, brick construction, steel and concrete framework, roof of steel saw tooth type, steel frame windows, reinforced glass with wire netting, approx. cost \$300,000; Marr & Holman, Archts. (Previously noted.)

Tex., El Paso — Heid Bros. Mercantile & Supply Co., capital \$100,000 inceptd. by Charles and Joseph Hyde, Sam Kelly.

Tex., Houston — Exposition Park, C. W. Elrod, Gen Mgr., Box 861, will expend \$500,000 on buildings for amusement park, including merry-go-round, open air stage, dance hall, board walk, 3600 ft. mountain speedway, aeroplane ride, ferris wheel, shooting gallery, Japanese garden, swimming pool, etc.; lumber and concrete construction; open bids May 1. (See Machinery Wanted—Motors; Electric Lamps; Bathing Pool Equipment; Soda Fountain, Etc.; Radio Outfit; Pipe (Galvanized); Fencing, etc.; Wax (Floor); Candy; Pumps).

Va., Lynchburg — Yellow Cab & Bus Corp., capital \$25,000, inceptd. with J. V. Webster, Prest.; Lula Webster, Secy.

Va., Richmond — Construction — Virginia Building Material Co., Inc., capital \$25,000 incorporated with L. C. Tolson, Prest.; Leroy M. Lee, Secy.

Va., Richmond — S and N Laundry, Inc., capital \$15,000, chartered with W. W. Simmons, Prest.; I. C. Smith, Secy.

Va., Roanoke — Times-World Corp., increased capital from \$200,000 to \$500,000.

W. Va., Charleston — Western Engineering Service Co., capital \$100,000, inceptd. by John Walters, C. S. MacCalla and A. M. Rosenblatt.

W. Va., Lewisburg — Lewisburg Steam Pressing Works, organized by W. R. Mathemey and W. R. Blankenship.

### Miscellaneous Factories.

Ala., Pelham — Superior Lime & Hydrate, W. D. Lewis, Box 2311, Birmingham, Ala., will erect lime plant.

Ala., Tuscaloosa — Perry Creamery Co., I. J. Perry, Prest. will increase capital to \$30,000.

D. C., Washington — California Bottling Co., capital \$50,000, inceptd. by George Mezitis, Aristides H. Chaconas and Melitos Metaxes.

Fla., Gainesville — Gainesville Creamery Co., capital \$25,000, inceptd. with Oscar Thomas,

Prest.; J. A. Phifer, Secy.; will erect building.

Fla., Kelsey City — Rubber Tires—Royal Palm Rubber Co., capital \$100,000, inceptd. with C. F. Laughlin, of Salisbury, N. C., Prest.; Gordon Ware of West Palm Beach, Secy.; will erect factory on Dixie Highway with daily output of 50 tires; building will be of reconstructed stone; plans by William Manly King, West Palm Beach.

Ga., Americus — Americus Ice Cream and Creamery Co., I. E. Wilson, P. O. Box 11, let contract to E. W. Hawlings, to erect 50x80 ft., fireproof, ice cream plant; cost \$10,000. (Lately noted.)

Ga., Columbus — Craigs' Bakery, 1829 Hamilton Ave., Mrs. L. C. Brawner, Secy.-Treas., let contract to C. W. Buck & Sons, 704 23rd St., to construct one building 60x80 ft. and one building 30x120 ft.; cost about \$10,000.

Ky., Central City — Central City Coca-Cola Bottling Co., capital \$16,000, inceptd. by N. B. Barnett, Andrews McRee, of Owensboro, Ky.

Ky., Elizabethtown — Bond Brothers, increased capital from \$600,000 to \$1,000,000.

Ky., Frankfort — Enoch Mfg. Co., capital \$50,000, inceptd. by George Halmhuber, L. D. Harrod and A. T. Carter.

Ky., Louisville — Bensinger Outfitting Co. increased capital from \$125,000 to \$300,000; will erect building 53x210 ft.; 5 stories; install sprinkler system; cost \$150,000 to \$200,000; Plattank & Bush, Contrs.

Ky., Louisville — W. J. Hughes & Sons Co., increased capital from \$350,000 to \$750,000.

Ky., Louisville — Prestonla Mfg. Co. increased capital to \$200,000.

Ky., Paducah — Tucker Chemical Mfg. Co. increased capital from \$25,000 to \$75,000.

La., New Orleans — Tents, Awnings, etc.—Foster Mfg. Co., 529 Magazine St. has plans by Emile Well, Whitney Central Bldg. for mfg. plant; 2 stories; 103x105 ft.; brick; bids for construction opened April 18. (Lately noted.)

La., Shreveport — Peyton Drug Co., 601 Texas St., lately noted to increase capital to \$50,000; will occupy building erected by Renoll Estate; 40x100 ft.; 2 stories and basement; fireproof; cost \$70,000; G. & G. Construction Co., Contrs.; Clarence W. King, Archt., Shreveport.

Md., Baltimore — James Schaeffer, 3 N. Falls way, has building at 102-4 W. Lombard St. and will improve for mfr. of candy.

Md., Baltimore — Nu-Grape Co., headquarters, Atlanta, Ga. will establish branch plant; leased 4 story building at 121 Cheapside; H. B. Matthews, in charge.

Md., Baltimore — Paints — Baltimore Paint & Color Works Frederick and Calverton Rd. will rebuild plant burned at loss of \$50,000.

Md., Baltimore — Show Cases, etc.—Cardwell-Fischer Fixture Co., Inc., 109 Landwehr Lane, capital \$100,000, inceptd. by Thomas L. Cardwell, Albert F. Fischer, Joseph R. Walter.

Miss., McComb — McComb Pure Cane Syrup Co., Xavier A. Kramer, Mgr., will erect pure cane syrup plant; 100x200 ft.; mill construction; cost \$50,000; H. O. Allen, Const. Engr. Lately noted. (See Mch. Wanted—Cane Syrup Plant Equipment.)

Mo., Anderson — Aaron Choate will erect bakery on Marshall St.

Mo., Fulton — W. F. McElroy, Prest., McElroy-Sloan Shoe Co., St. Louis, Mo. will probably let contract May 1 to construct shoe factory; also remodel plant of the Fulton Over-all Co.; equip both building with automatic sprinkler system.

Mo., Joplin — Junge Baking Co., capital

\$100,000, inceptd. by A. Jung, Charles I. Miles and others.

Mo., Kansas City — Crescent Mfg. Co., capital \$10,000, inceptd. by F. N. Winslow, A. Coleman, G. E. Warren.

Mo., St. Joseph — Deitrickson Radio Co., incorporated by A. J. Bunswig, Jr., Chleo H. Jenree, L. B. Deitrickson.

Mo., St. Louis — Storm Royalty Co., capital \$50,000, inceptd. by J. A. Storm, J. L. Schlicker, D. H. Trague.

Mo., St. Louis — McIntyre Radio Corp., capital \$25,000 chartered by Maude E. McIntyre, Florence S. Cone and others.

Mo., St. Louis — Skelton Cut-Make-Trim Co., capital \$15,000, inceptd. by Max Skelton, J. W. Olson and Sam Rosenfeld.

Mo., St. Louis — James E. Johnson Drug Co., inceptd. by J. E. Johnson, Telitha Price and others.

Mo., Springfield — Kream Olive Soap Co. let contract to John M. Olson, to erect two large buildings on Glenstone road for mfr. of soap; 2 stories; 38x110 ft. and 40x70 ft.

Mo., Webb City — Watson Food Products Co., Claude L. Watson, Prest., Box 447, is removing plant from Fairhope, Ala., for mfr. of heath foods, fruit marmalades, soups, canned goods, etc., will install new equipment. Lately noted. (See Mch. Wanted—Canning Equipment, etc.; Peanut Butter Machinery, etc.; Cereal Mills; Grain Cleaning Equipment.)

N. C., Albemarle — John E. Efrid & Sons, Inc., capital \$100,000, inceptd. by J. B. and P. H. Efrid, Charlotte; E. L. Efrid, Winston-Salem, N. C.

N. C., Charlotte — Interstate Radop, Inc., capital \$15,000, inceptd. by D. L. Mackay, R. F. Ferguson, George Harold.

N. C., Horseshoe — Horseshoe Co-operative Cheese Co., inceptd. by J. D. Osborne, W. H. Poole, A. P. Brannon.

N. C., Macclesfield — D. F. Batts & Co., capital \$10,000, inceptd. by L. S. Walston, Macclesfield; N. L. Alcock, Rocky Mount; W. O. Howard Tarboro.

N. C., Morehead City — Woodland & Co. increased capital from \$50,000 to \$100,000.

N. C., Salisbury — Piedmont Candy Co., capital \$25,000, inceptd. by J. M. and L. E. Miller; J. F. Russel.

N. C., Winston-Salem — American Bakery Co., Atlanta, Ga., purchased plant of O'Brien Baking Co.

Okl., Muskogee — Powell & Wasson, capital \$50,000, inceptd. by James L. Powell, C. H. Wasson and others.

Okl., Oklahoma City — Self Fit Optical Co., capital \$10,000, inceptd. by Sam P. Render, Arch. C. Collins, W. R. Dodson.

S. C., Columbia — Confectionery — Delmoy Specialty Co., inceptd. with S. B. Moyle, Prest.; E. William DeLay, Secy.-Treas.

Tenn., Chattanooga — Jarrett Medicine Co., capital \$25,000, inceptd. by E. T. Jarrett, J. L. Hendricks, G. T. Payne.

Tenn., Chattanooga — Bennett Hubbard Candy Co., W. . Dethro, Secy.-Treas., will add one story to building, 150x75 ft.; mill construction; daily output 12,000 lbs. candy; Chas. E. Bearden, Archt.; Geo. Becking & Son, Contr. Lately noted. (See Mch. Wanted—Hot Room (Candy).)

Tenn., Memphis — Memphis Battery Co., capital \$10,000, inceptd. by P. W. Lytle, W. D. Wilson, W. F. Landrum.

Tex., Amarillo — Amarillo Broom & Specialty Co., capital \$12,000, inceptd. by G. F. C. Fons, W. A. Sweetman and R. E. Vernon.

Tex., Breckenridge — Texas Carbon Indus-

tries, Bert Blair, Prest., Mexia, C. N. Avery, Secy., Austin, Texas; will establish plant for mfr. of carbon black; cost about \$200,000 including buildings; C. K. Springfield, care Austin Street R. R., Austin, Texas, Const. Engr. Lately noted. (See Mch. Wanted—Carbon Black Plant Equipment.)

Tex., Dallas—Brown Cracker & Candy Co., J. L. Brown, Prest., will expend approx. \$1,000,000 to erect 7 story factory building and 2 story warehouse; will install machinery and equipment to cost about \$350,000; plans by C. E. Banglebaugh & Co., Archts. (Lately noted.)

Tex., Dallas—Almstead Mfg. Co., capital \$10,000, inceptd. by F. E. Tennant, M. G. Young and F. W. Yensen.

Tex., San Antonio—Scott-Neisil Paint & Glass Co., inceptd. by C. W. Neisil, J. P. and Grace Scott.

Tex., South San Antonio—Henderson Legging & Belt Co., capital \$10,000, inceptd. by J. S. and W. T. Henderson and others.

Tex., Texas City—Texas Sugar Refining Co., let contract to John Monks & Son, New York, to construct refinery; concrete; brick and steel; first unit to have refining capacity of 1,000,000 lbs. sugar; contract for structural steel let to Ingalls Iron Works Co., Birmingham, Ala.; contract let to Jourbert & Goslin, Birmingham, Ala., for refinery mch. etc. (Lately noted.)

Tex., Victoria—Victoria Creamery Co., capital \$10,000, inceptd. by N. A. Martin, B. B. Bonar and others.

Va., Norfolk—Norfolk Sugar Refining Co., Inc., capital \$3,500,000, chartered with John J. Lenihan, Prest., 104 Broad St., New York; Stephen H. Dorr, Secy., New York; contemplate establishing refinery; J. B. Morgan, Southern Produce Bldg., and R. B. Tucker, 112 Brooke Ave., both Norfolk, interested in project.

Va., Norfolk—Norfolk Tallow Co., Inc., capital \$25,000, inceptd. with E. L. Field, Prest.; J. W. Field, Secy.

Va., Richmond—Peerless Chemical Co., Inc., capital \$20,000, chartered with Ernest W. Farley, Prest.; Thomas J. Starke, Secy.

W. Va., Elkins—Randolph K. Hoek, interested in organization of company to mfr. wearing apparel. (See Mch. Wanted—Garment Manufacturing Machinery.)

W. Va., Warwood. P. O. Wheeling—U. S. Corrugated Fibre Box Co., Indianapolis, Ind., R. J. Hauser, Sales Mgr. let contract for rebuilding of burned plant at Warwood; 400 ft. x 80 ft.; 2 stories; will triple capacity of former plant; also erect warehouse steel, 80x160 ft. (Lately noted.)

W. Va., Welch—E. H. Suddeth Co., capital \$100,000, inceptd. by J. W. Price, Welch; Walton Suddeth, Bluefield; E. H. Suddeth, Lynchburg, Va.

### Motor Cars, Garages, Tires, Etc.

Ala., Birmingham—Packard-Birmingham Motors Co., J. Mercer Barnett, Prest., will rebuild plant; burned at loss of \$330,000.

Ala., Mobile—Franklin Motor Car Co., capital \$12,000, inceptd. by F. H. Cranston, J. A. and Charles E. Abbott.

Ala., Ozark—Ozark Motor & Tractor Co., capital \$12,000, inceptd. by Fred. T. Dowling, L. B. Martin and J. E. Z. Riley.

Fla., Orlando—Rogers-Chevrolet Co., capital \$50,000, inceptd. with L. B. Fort, Prest.; W. D. Rogers, Secy.-Treas.

Fla., Tampa—Nash Co., capital \$25,000, incorporated with L. D. Nash, Prest.; F. M. Nash, Secy.

Fla., Tampa—Filling Station—Gulf Re-

fining Co. will erect gasoline filling station corner Lafayette and Marion Sts., concrete construction.

Fla., Winter Park—Garage and Filling Station—F. L. Hall will erect \$15,000 garage and \$5000 filling station.

Ga., Columbus—Gulf Refining Co. will erect filling station on Hamilton Ave. and 17th St.

Ky., Fleming—North East Kentucky Motor Co., capital \$10,000, inceptd. by E. H. Salyers, John L. Dent and Thomas S. Haymond.

Ky., Louisville—Superior Motor Co., capital \$10,000, inceptd. by John C. Harlamert, Robert Cain, Albert Neurath.

Miss., Greenwood—McIntyre Hamrick Automobile Co. increased capital to \$20,000.

Miss., Wyatt—Garage, etc.—Freemen & Son let contract to J. W. Steward to erect 40x60-ft. garage and repair plant.

Mo., Kansas City—Motor Industries Corp., capital \$100,000, chartered by C. F. Field, P. G. Mathis, E. P. Brus.

Mo., Kansas City—Hemphill Overland Motor Co., capital \$50,000, inceptd. by W. P. Hemphill, William Mann and others.

Mo., Kansas City—Automobile Accessories—Shuff Service Inc., capital \$50,000, chartered by R. B. Shuff, A. V. Cauger and others.

Mo., St. Louis—Cathcart Motor Co., 4619 Delmar Ave., capital \$35,000, inceptd. by W. J. Brown, J. R. Cathcart and others.

Mo., St. Louis—Automobile Accessories—Linze Electrical Supply Co., capital \$10,000, inceptd. by George Gantner, C. L. Wright, L. N. Lawson.

Mo., Trenton—McVay Motor Co., E. 9th St. has plant for enlarging garage building.

S. C., Anderson—Pendleton Motor Co., capital \$50,000, inceptd. by F. G. Herron, R. E. Day.

S. C., Columbia—Red Circle Filling Co., incorporated with R. B. Simpson, Prest.; B. F. Harth, Secy.-Treas.

Tex., Dallas—Automobile Paintshop—Darby Top & Painting Co., 1112 Ross Ave., will occupy 100x125-ft. building to be erected at Commerce and Duncan Sts.; brick and concrete construction; \$75,000; erected by B. R. Sparks, Jr.; F. J. Woerner & Co., Archts.

Tex., Plainview—Sheford-Weyl Motor Co., capital \$10,000, inceptd. by T. C. Sheford, F. D. and Wm. Weyl.

Tex., San Antonio—Reo-Bates Motor Co., capital \$10,000, inceptd. by W. T. Bates, J. W. Kokernot, A. F. Barnes.

Va., Alexandria—Alexandria Automobile Sales Co., Inc., capital \$50,000, chartered with John S. West, Prest.; Ashby E. Bladen, Secy.; takes over West Motor Co., 900 Duke St.

W. Va., Bluefield—Garage—W. R. Keese & Co. will erect 40x100-ft. garage building on Bluefield Ave., brick construction with limestone trimmings; will be a unit of present building; Garry & Sheffey, Archts.

### Railways.

Fla., Tampa—President D. C. Gillette of the Tampa Southern Railroad Co. is quoted saying that an extension will be built this summer from Bradentown, its southern terminus to a point beyond Sarasota, Fla., 13 mi., making a total length of 46 mi.

Tex., Houston—Capt. Ed. Kennedy, 310 Chronicle Building, has, it is reported, given a contract to H. G. Henderson, electrical engineer, Boston, Mass., to survey for the proposed Houston-Beaumont-Orange Electric Interurban Railway.

### Road and Street Construction.

Ala., Birmingham—Jefferson County Board of Revenue, will receive bids soon to resurface 4 mi. Warrior-Robins road. Address County Engr.

Ala., Jasper—Walker County plans expending \$120,000 for 10 mi. road in County. Address County Commrs.

Fla., Bonifay—City plans street and sidewalk improvements. Address The Mayor.

Fla., Dade City—City and Pasco County Commrs. let contract to Miekler & McLeod, Tampa, Fla., at \$53,725, to widen pavement in Dist. Road No. 2, and to pave and curb other streets.

Fla., Fulford—For full details see Land Developments.

Fla., Gainesville—For full details see Sewer Construction.

Fla., Graceville—For proposal details see Mch. Wanted—Sidewalk Construction.

Fla., Green Cove Springs—Clay County Commrs., Special Road and Bridge Dist. No. 3, plans road and bridge construction; will vote May 7 on \$35,000 bonds.

Fla., Key West—City plans improvements, will vote May 10 on \$200,000 bonds; for streets, \$25,000; links, \$150,000; parks, \$25,000. Address The Mayor.

Fla., Miami Beach, Sta. Miami—For full details see Water Works.

Fla., New Port Richey—For full details see Land Developments.

Fla., St. Petersburg—For proposal details see Mch. Wanted—Paving; Paying Material.

Fla., Sebring—Highlands County Commrs. will receive bids until Apr. 30, to build North and South unit of County, from Polk County line, north of Avon Park, to Glades County, via Sebring, DeSoto City, Lake Stearns, Hicoria and Venus; 6-in. rock base, asphaltic surface; \$375,000.

Fla., Tampa—For full details see Bridges, Culverts, Viaducts.

Fla., Tampa—For full details see Land Developments.

Fla., Tavares—For proposal details see Mch. Wanted—Road Construction.

Fla., Tavares—Lake County Commrs., will build 10 sections of roads. For proposal details see Mch. Wanted—Road Construction.

Fla., Tavares—Lake County Commrs., let contract to W. J. Howey Co., at \$38,263, to build 7.7 mi. road from Clermont-Tavares road to Howey.

Fla., West Palm Beach—Palm Beach County Commrs. will build 2 roads. For proposal details see Mch. Wanted—Road Construction.

Fla., West Palm Beach—Palm Beach County Commrs., Dist. No. 15, plan extending Ocean Blvd., from Boca Ratone to County border, complete West Boynton road, and build bridge at Lantana; voted \$55,000 bonds.

Fla., Winter Park—City plans building 5½-mi. brick roads in city limits. Address The Mayor.

Ga., Waycross—For proposal details see Mch. Wanted—Paving.

Ga., Waycross—State Highway Dept., H. M. Pafford, Engr., Atlanta, Ga., contemplates building 3 roads in Ware County as follows: Waycross-Manor, \$100,000; Iron Bridge, \$126,000, Waynesboro, \$90,000, also Satilla River Bridge, on Waycross-Black-shear road, \$93,000.

Kentucky—State Highway Comsn., H. Green Garrett, Chmn., Frankfort, Ky., let contracts for 3 roads as follows: 8 mi. rock asphalt road on Jackson Highway in Bullitt and Spencer counties, to Wilmore Construc-

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

tion Co., at \$374,539.44, and at \$229,246.69 for 6 mi. rock asphalt road in Nelson County; 8 mi. concrete road on Dixie Highway between Dry Ridge and Kenton County line, Grant County, to Mills & Connelley, Brooksville, Ohio, at \$252,726.06; for bridge over Livingston Creek, on Caldwell-Crittenden line, to Moore & Nelson, Hopkinsville, Ky., at \$6723.43. (Lately noted.)

Kentucky — State Highway Comsn., H. Green Garrett, Chmn., Frankfort, Ky., let contract to Wm. Gormley, Versailles, Ky., at \$24,159.58, to build 3 mi. road from Lawrenceburg to Tyrone, Anderson County; also plans building 3 1/4-mi. high type surface Ohio River road, Daviess County, from Owensboro east, and grade and drain 7 1/2-mi. to Hancock line; County to pay one third, federal government one-half; Joe S. Boggs, State Highway Engr.

Ky., Louisa — State Highway Comsn., Frankfort, Ky., will receive bids until May 9 for 8.5 mi. on Mayo Trail, from Louisa to Paintsville; (Lately noted.)

Ky., Wickliffe—For full details see Bridges, Culverts, Viaducts.

Louisiana — Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La. received low bids to build 4 roads as follows: To construct embankment on Sec. A. Tangipahoa Parish, 8.834 mi. Hammond-New Orleans Highway, from point 1.16 mi. south of Ponchatoula to Pass Manchac, from McWilliams & Co., Memphis, Tenn., at \$249,976.08 and Sec. B, St. John The Baptist Parish, 13.173 mi. from Pass Manchac to Frenier, at \$274,432.48; Lincoln Parish, Sec. B, 12.5 mi. gravel road on Ruston-Monroe Highway, from Meyer Greenwald Construction Co., at \$130,421.91; Madison Parish, Sec. B, 8.63 mi. gravel road on Tallulah-St. Joseph Highway, from R. M. Perry, at \$36,574.41. (Lately noted.)

La., Arcadia — For proposal details see Mch. Wanted—Paving and Sewer Construction.

La., Colfax—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La., let contract to Grant Parish Construction Co., Colfax, at \$70,233.08, for 5.49 mi. Colfax-Natchitoches highway. (Lately noted.)

Maryland—State Roads Comsn., will build 5 roads. For proposal details see Mch. Wanted—Road Construction.

Maryland—State Roads Comsn., 601 Garrett Bldg., Baltimore, Md., let contracts to build 5 concrete roads as follows: Prince Georges County, .7 mi. between Laurel and Montgomery County line, to Tydings, Marine Co., Knickerbocker Bldg., Baltimore, at \$18,783; Queen Anne's County, .76 mi. between Chester and Kent Narrows, to J. K. Flick, Sudlersville, Md., at \$20,760; Frederick County, 1.16 mi. from Emmittsburg west to Pennsylvania State line, to J. R. Waesche, Thurmont, Md., at \$32,324; Dorchester County, 1.01 mi. between Cambridge and Lloyds, to Holt Construction Co., Federalsburg, Md., at \$29,283; Somerset County, 1.92 mi. between Princess Anne and Deals Island, to Hannan-Burroughs Co., Salisbury, Md., at \$68,157. (Lately noted.)

Md., Baltimore—City, Paving Comsn., R. Keith Compton, Chmn., 213 E. Lexington St., approved plans to pave 19 streets in Govans section with sheet asphalt; will pave Park Heights Ave. from city limits to Avondale Ave.; State Roads Comsn., 601 Garrett Bldg., paving from Keyworth Ave. to city line; city and Mount Washington Development Co., will pave Crest Ave. from Greenspring Ave. to Ridge road.

Md., Baltimore—For proposal details see Mch. Wanted—Paving.

Md., Baltimore—For full details see Land Developments.

Md., Towson—Baltimore County Commrs., John R. Haut, Ch. Clk., will receive bids until Apr. 19 to improve 4 roads as follows: 1069 ft. Golden Ring road, from end of macadam to intersection of Oreams road; 1 mi. Stemmers Run road, from intersection of Oreams road; 3130 ft. Oreams road, from end of macadam to intersection of Stemmers Run and Golden Ring roads; 1/2-mi. Chesaco Ave. from Philadelphia road east; Samuel A. Green, Roads Engr.

Md., Towson—Baltimore County Commrs., John H. Haut, Ch. Clk., will receive bids to improve following roads: Trappe, Merritt Ave., New Pittsburgh Ave., Joppa and Glen Arm; Samuel A. Green, Roads Engr.

Mississippi—State Highway Dept., Jackson, Miss., plans letting contracts prior to July 1, for 13 road projects as follows:

120—Jackson County, 13. mi. concrete road between Pascagoula and Ocean Springs; 40—Grenada County, 16 mi. gravel road from Grenada to Tallahatchie County line, through Holcomb, to connect with gravel road under construction to Charleston; 141—Tate County, 11.6 mi. gravel road on Grenada-Memphis Highway; 14—Oktibbeha County, 1.7 mi. concrete and gravel road between Starkville and A. & M. College; 146—Warren County, 7.6 mi. gravel road on North Scenic Highway, between Vicksburg and Rolling Fork; 147—Grenada County, 7.6 mi. graded road between Grenada and Calhoun City.

148—Carroll County, 13.4 mi. gravel road between Lexington and Holcomb; 149—Alcorn County, 9.7 mi. gravel road, between Corinth and Tishomingo County line; 150—Franklin County, 8.6 mi. gravel road between Meadville and McComb; 151—Lafayette County, 1.8 mi. gravel road, through Tallahatchie River Bottom, between Oxford and Holly Springs; 153—Claiborne County, 8.5 mi. gravel road between Port Gibson and Vicksburg; 154—Monroe County, 19.7 mi. concrete road between Aberdeen and Nettleton; 157 Webster County, 13 mi. graded road, between Eupora and Calhoun City; will let contracts after July 1, for 9 roads as follows:

Tishomingo County, 16.9 mi. gravel road between Alcorn County and Alabama State lines; Washington County, 8.3 mi. concrete, between Leland and Rolling Fork; Calhoun County, 24.2 mi. graded, between Grenada and Houston; Montgomery County, 12.3 mi. between Winona and Grenada; Yalobusha County, 21 mi. gravel and concrete between Grenada and Water Valley; Lauderdale County, 4.7 mi. gravel, between Meridian and Vivville; Hancock County, 30 mi. gravel, between Bay St. Louis and Nicholson, and connecting with Louisiana Highway into New Orleans.

Harrison County, 1.7 mi. concrete, between Biloxi and Gulfport near Biloxi; Rankin County, 3 mi. concrete, between Jackson and Pelahatchie; also plans building 3 gravel roads as follows: Oktibbeha County, 3 mi. between Starkville and Sturgis; Kemper County, 8.9 mi., to connect gravel road between Meridian and Macon; Covington County, 7.6 mi. between Magee and Collins near Mt. Olive; H. C. Dietzer, State Highway Engr.

Miss., Belzoni—Humphreys County, Board of Supvrs., plans graveling roads in Supvrs. Dist. No. 1; will vote Apr. 27 on \$400,000 bonds.

Miss., Belzoni — Humphreys County, Sidon's Store Precinct, plans building graveled roads on section of Beat One; voted \$115,000 bonds. Address County Commrs.

Miss., Canton—Madison County, Board of Supvrs., let contract to Owens & Gaddis, at \$74,240, to grade and gravel .14 mi. road in Dist. No. 2.

Miss., Gulfport—State Highway Dept., Jackson, Miss., let contract to J. F. Morgan Paving Co., Birmingham, Ala., at \$64,678.48 to pave 1.8 mi. road between Biloxi and Bay St. Louis, along West Beach Blvd. (Lately noted.)

Miss., Poplarville—State Highway Dept., Jackson, Miss., let contract to B. H. Bass, Hazelhurst, Miss., at \$62,000 for 7.7 mi. gravel road on Jackson Highway in Pearl River County. (Lately noted.)

Miss., Senatobia—Tate County, Board of Supvrs., plan building section of Jefferson Davis Highway north and south through County; will vote May 4 on \$80,000 bonds.

Miss., Woodville—For proposal details see Mch. Wanted—Sidewalk Construction.

Miss., Woodville—City will lay 2 mi. concrete sidewalks on principal streets; voted \$12,000 bonds; Kramer Engineering Co., Engr., McComb, Miss. Address The Mayor.

Missouri—State Highway Dept., Jefferson City, Mo., will let contracts soon to pave 10 mi. Pikes Peaks Highway, 9 mi. in Buchanan and 10 mi. in DeKalb County; approximate cost \$600,000.

Mo., Carthage—C. F. Drake, Mayor, contemplates paving N. McGregor St. from Central Ave. to Eldorado St.; also Clinton St. from 4th St. to Central Ave.

Mo., Independence—City plans widening and paving Maple Ave. Address The Mayor.

Mo., Joplin — City Comsn., contemplates paving 1 1/4 mi. E. 7th St. with one course concrete, from alley west of Grand Ave. to Range line; estimated cost \$14,750; O. P. Mahoney, Commr. of Streets and Public Improvements; Joplin Special Road Comsn. will pave remaining 18 ft. roadway.

Mo., St. Joseph—For full details see Sewer Construction.

Mo., University City—For full details see Sewer Construction.

N. C., Asheville—R. J. Sherrell, Commr. of Public Works, let contracts at \$200,000, to Asheville Paving Co., for asphaltic paving, and to E. T. Belote, for concrete paving; both Asheville; 11,000 yds. sheet asphalt, 8500 yds. Willite bitulithic, 8300 yds. asphaltic concrete, and 40,000 yds. concrete. (Lately noted.)

N. C., Cornelius—Town plans grading and laying concrete side walks on principal streets. Address The Mayor.

N. C., Danbury—Stokes County Highway Comsn., plans building main highways in County; will issue \$60,000 bonds.

N. C., Leaksville—B. S. Jones, Mayor, let contract to Hedrick Construction Co., Lexington, N. C., at \$189,744 for street paving. (Lately noted.)

N. C., Lincolnton—For proposal details see Mch. Wanted—Paving.

N. C., Mount Airy—For proposal details see Mch. Wanted—Paving.

N. C., Troy — Montgomery County Road Trustees, J. F. Russell, Trustee, let contract to J. T. Platt, Greensboro, N. C., at \$22,000 to build 8.8 mi. top soil road from Esther to Saunders Store, and to Benfield Bros., Troy, at \$11,000 to construct two 12x70 ft. steel bridges across east and west prongs of Little River. (Lately noted.)

N. C., Wentworth—Rockingham County Commrs., plan building hard surfaced road from Settle's Bridge to Madison; estimated cost \$250,000.

N. C., Winston-Salem—City, H. L. Shaner

Chmn., Dept. of Public Works, plans expending \$917,137.53 to pave about 50 streets, and a total expenditure of \$1,501,939.03, which includes paving, grading, curbing, sewer and water connections and extensions, bridges, culverts, etc.; 13 streets to be paved with asphalt and bitulithic, by Powell Paving Co.; the remainder with bitulithic and Kentucky rock asphalt, by Atlantic Bitulithic Co.

Okla., Muskogee—State Highway Dept., Oklahoma City, let contracts for 3 roads in Muskogee County as follows: 15 mi. road from Warner to Haskell County line at Whitefield on Canadian River, to Hinson Brothers and Meyer-Greenwald Construction Co., Muskogee, at \$178,000; 2 mi. road from Warner south, and 2 mi. from Fort Gibson-Muskogee road west to Jefferson Highway, and to Frisco railroad bridge, to Stebbins, Werhan, Ellis & Lewis, Muskogee, at \$49,788; Salina gravel; also will build several concrete bridges.

South Carolina — State Highway Comsn., Chas. H. Moorefield, Engr., plans improving 6 roads and appropriated funds as follows: Richland County, Camden road, \$30,000; Florence County, Manning-Florence road, \$15,000; Saluda County, Batesburg-Saluda road, \$10,000; Fairfield County, extend Winnsboro-Blackstock road, \$10,000; Berkeley County, S. H. No. 41, \$33,322.47; Bamberg County, Proj. No. 166, \$4000 additional.

S. C., Abbeville—For proposed details see Mch. Wanted—Road Construction.

S. C., Easley—Paving Comsn., A. B. Taylor, Chmn., let contract to Carolina Contracting Co., Spartanburg, S. C., at more than \$100,000, to pave and lay sidewalks on certain streets. (Lately noted.)

S. C., Gaffney—Cherokee County Highway Comsn., received low bid from Newell Construction Co., Anderson, S. C., at \$42,057.90, for 8.1 mi. topsoil road between Blacksburg and York County line, at Smyrna; also from Lillard-Laurens Co., Charleston, S. C., at \$206.25, for 210-ft. creosoted timber bridge over King's Creek, F. A. Proj. 147. (Lately noted.)

S. C., Gaffney—R. A. Jones, Mayor, plans expending \$50,000 for street and sidewalk paving, and curbing; Harwood Bebee, City Engr., Spartanburg, S. C.

S. C., Saluda—P. H. Bailey, Mayor, plans street improvements; will vote June 11 on \$65,000 bonds.

Tenn., Elizabethton—For proposal details see Mch. Wanted—Road Construction.

Tex., Anahuac—Chambers County, Joe F. Wilson, County Judge, plans road improvements in Road Dist. No. 4, will vote April 28 on \$100,000 bonds; and in Road Dist. No. 1, will vote April 28 on \$10,000 bonds.

Tex., Angleton—State Highway Dept., Austin, Tex., approved plans for 5.6 mi. 16-ft. shell surfaced road on S. H. No. 19; \$64,000, E. N. Gustafson, County Engr.

Tex., Bay City—For proposal details see Mch. Wanted—Road Construction.

Tex., Clarksville—City will improve streets; voted \$9000 bonds. Address The Mayor.

Tex., Cleburne—Johnson County, Lone Star Dist., plans building 9½ mi. roads to connect with Venus and Mansfield roads, and St. Paul and Mansfield roads; contemplates voting on \$50,000 bonds. Address County Comms.

Tex., Conroe—Montgomery County, W. J. Kelly, County Engr., plans 22 mi. 16-ft. gravel

road on S. H. No. 19, from Willis to Harris County line; \$142,000; W. A. Lee, County Judge.

Tex., Corsicana — J. S. Eubank, Mayor, plans street improvements; voted \$75,000 bonds; extend sewer system, voted \$10,000 bonds; extend water system, voted \$15,000 bonds. (Lately noted.)

Tex., Dallas—For full details see Water Works.

Tex., Fairfield—Freestone County, Graham Road Dist., plans improving roads; will vote Apr. 28 on \$10,000 bonds. J. F. Roper, County Judge.

Tex., Fort Worth—City Comsn., will receive bids to pave Calhoun St. from Broadway to Tucker, Jones, from Bluff to 7th, Illinois Ave. from Broadway to Stella, Capps from M. K. & T. to Mississippi Ave., and from Mississippi Ave. to Sutton St., and Fahey St. from Weatherford to W. 5th St.; plans building subway under Santa Fe tracks.

Tex., Fort Worth—Navarro County let contract to P. F. McElwraith, Corsicana, Tex., for 6.48 mi. 9-ft. concrete road on S. H. No. 1, from point southwest of Corsicana toward Waco; F. A. Proj. No. 329; \$85,997.98, half to be borne by Bureau of Public Roads; A. R. Losh, Dist. Engr.

Tex., Greenville—Jos. F. Nichols, Mayor let contract to Jones Contracting Co., Dallas, Tex., for 118,738 sq. yds. vertical fibre brick paving with asphalt filler. (Lately noted.)

Tex., Hallettsville—Lavaca County, C. L. Stairnoha, County Judge, plans grading and constructing steel and concrete bridges and culverts on 21 mi. S. H. No. 3-B, from Yoakum to Sweet Home, and extending from Hallettsville to Fayette County line; \$175,000; W. H. Koether, County Engr.

Tex., Hemphill—Sabine County, W. H. Davidson, County Judge, plans building 20 mi. 16-ft. gravel road on S. H. No. 8; \$134,000; W. A. French, County Engr.

Tex., Houston — O. F. Holcombe, Mayor, plans expending \$200,000 for street paving and sewer construction as follows: Pave Waugh's Drive, to connect South End and Houston Heights; Preston Ave., Caroline St., Calumet Drive, Blodgett Ave., Hutchins St., etc.; J. C. McVea, City Engr.

Tex., Houston—Harris County will improve 5 roads. For proposal details see Mch. Wanted—Road Construction.

Tex., Houston—For full details Sewer Construction.

Tex., Lagrange — Fayette County, J. P. Ehlinger, County Judge, plans highway improvements in Road Dist. No. 6; will vote Apr. 24 on \$25,000 bonds.

Tex., Marshall—For proposal details see Mch. Wanted—Road Construction.

Tex., Marshall—For full details see Water Works.

Tex., Mineral Wells—Mineral Wells Paving Brick Co., Mineral Wells, was awarded contract to lay 6823 sq. yds. 3-in. vertical fibre brick pavement, and 2450 lin. ft. curb and gutter. (Previously noted.)

Tex., Pittsburg—Secretary of Agriculture, U. S. Bureau of Public Roads, Washington, D. C., approved plans for 12.06 mi. 16-ft. gravel bituminous road on S. H. No. 11, through Camp County, F. A. Proj. No. 333; Chas. Chappell, County Engr.

Tex., Richmond—Fort Bend County, C. D. Myers, County Judge, plans paving 20 mi. Old Spanish Trail from Harris County line to west line of Road Dist. No. 1; \$550,000; C. H. Kendall, County Engr., Sugarland, Tex.

Tex., Rockwall — McCollum Construction Co., 1507 F. & M. Bldg., Fort Worth, Tex.,

was awarded contract at \$143,772, for 57,000 sq. yds. concrete pavement on Rockwall-Chisholm road, from Rockwall to Kaufman County line.

Tex., Sulphur Springs — Hopkins County plans building Jefferson and Bankhead Highways; contemplate voting on \$2,000,000 bonds. Address W. W. Evans, Secy., Chamber of Commerce, or R. E. Bertram, County Judge, Sulphur Springs.

Tex., Uvalde—Ch. Engr., U. S. Bureau of Public Roads, Washington, D. C., approved plans for 7.61 mi. 18-ft. gravel bituminous road on S. H. No. 3, from Main Frio River; Uvalde County, F. A. Proj. No. 360; \$85,000; Mack B. Hodges, County Engr.

Tex., Wills Point—City plans street improvement, voted \$10,000 bonds; also plans installing light plant, voted \$25,000 bonds. Address The Mayor. (Lately noted.)

Va., Fort Myer Heights—Arlington County Board of Supvrs., Jefferson Dist., plan concrete surfacing 10 roads as follows: .84 mi. Bellefont Ave., between Washington and Alexandria road and Russell road, \$23,373.90; .085 mi. Mount Vernon Blvd., between Alexandria Ave. and Alexandria corporate limits; \$2633.84; .194 mi. Braddock road, from end of present concrete to Alexandria corporate limits, \$4414.16; .291 mi. Peyton Ave. from Del Ray Ry. station to DeWitt Ave., \$8113.06; .181 mi. Walford Ave. between Del Ray Ry. station and Russell road, \$5616.60; .991 mi. Royal St. between Windsor and Washington Aves., between Alexandria and Hume Aves., \$29,632.90; .17 mi. DeWitt Ave. between Hume and Washington Aves., \$20,900.30; .90 mi. Braddock road, between end of present concrete and Leesburg Pike, \$25,221.68; .439 mi. Lloyd Ave., between Mount Vernon Blvd. and Washington and Alexandria road, \$72,166.60; 1.97 mi. Glebe road, between Arlington Dist. line, and Washington and Alexandria road, \$54,249.80; plans improving 9 streets, and 3.91 mi. Mount Vernon Blvd. and Washington Ave.; will vote May 15, on \$400,000 bonds.

Va., Kenbridge—State Highway Comsn., H. G. Shirley, Chmn., Richmond, plans building 1 mi. highway through corporate limits of Kenbridge.

Va., Norfolk — For proposal details see Mch. Wanted—Paving.

Va., Radford—W. E. Gilbert, Mayor, plans curbing, paving, etc. streets and sidewalks, voted April 17 on \$230,000 bonds.

W. Va., Fairmont—City, Board of Directors, Marion County Court, etc., contemplate widening Morgantown Ave., between Coogle's Corner and Maple Grove Cemetery.

W. Va., Iaeger—W. T. Vass, Mayor, plans grading, paving and otherwise improving streets and alleys; voted April 16 on \$40,000 bonds.

W. Va., Logan—For proposal details see Mch. Wanted—Road Construction.

W. Va., Martinsburg—City plans paving following streets: Moler Ave. from Queen St. to city limits; Virginia and West Virginia Aves., and intersecting streets, etc. Address Mayor Tonkin.

W. Va., Morgantown—City let contract to Willite Co., of West Virginia, at \$159,170.05, to pave 3 mi. streets; Chas. McDowell, City Engr.

### Sewer Construction.

D. C., Washington—For proposal details see Mch. Wanted—Sewer.

D. C., Washington—Dist. Comms. let following contracts for sewer construction: to Warren F. Brenizer, at \$23,927.50 for relief sewer on M Sts. between 20th and 21st N. W.,

and at \$9740 for service sewer on Conduit Rd. at Little Falls Rd. and Jewett St., N. W.; to Adams McCandlish at \$2274 for storm sewer on McKinley St. between Nevada Ave. and 37th St., N. W. and at \$4240 for sewer on Brooks St. between 44th and 47th Sts., N. W. (Lately noted.)

Fla., Fort George, P. O. Mayport—For full details see Land Development.

Fla., Gainesville — City voted \$300,000 bonds for extension and improvements to sewer, water, light system and extension of street paving, etc. Address The Mayor. (Lately noted.)

Fla., Miami Beach Sta., Miami—For full details see Water Works.

Fla., St. Petersburg—For proposal details see Mchy. Wanted—Sewer and Storm Water Drains.

Fla., Tampa—For full details see Land Developments.

La., Arcadia — For proposal details see Mchy. Wanted—Paving and Sewer Construction.

Md., Baltimore—For proposal details see Mchy. Wanted—Storm Water Drains.

Md., Baltimore—For full details see Land Developments.

Md., Edgewood Arsenal—For proposal details see Mchy. Wanted—Water and Sewer Lines.

Miss., McComb—City let contract at \$5476 to Woodruff & Powers for constructing 1200 ft. of Pearl storm sewer.

Mo., Greenfield—For full details see Water Works.

Mo., Independence—City, Robt. H. Jones, City Engr., is preparing plans for establishment of sewer district; cost of construction about \$15,000.

Mo., St. Joseph—City, Mayor McAninch, plans to expend \$2,000,000 for construction of sewers, streets and recreational projects.

Mo., University City—City voted \$470,000 bonds for the following improvements: \$200,000 for city parks; \$45,000 for building and equipping fire engine house; \$136,000 for building sewer through River des Peres Valley; \$50,000 for remodeling City Hall; \$35,000 for resurfacing Delmar Boulevard; \$4000 for construction of bridge over River des Peres. Address the Mayor. (Lately noted.)

N. C., Fayetteville—For full details see Water Works.

N. C., Winston-Salem—For full details see Road and Street Construction.

Okla., Pauls Valley—For full details see Bridges, Culverts, Viaducts.

S. C., Spartanburg—City, John F. Floyd, Mayor, contemplates voting on \$50,000 bonds for sewers, \$35,000 bonds for fire station and equipment.

Tenn., Memphis—For full details see Land Developments.

Tex., Corsicana—For full details see Road and Street Construction.

Tex., Dallas—For full details see Water Works.

Tex., El Paso—City opened bids for construction of extension to Main St. storm sewer; Anderson Bros., lowest bidders at \$8581.60.

Tex., Fort Worth—City opens bid April 24 to construct DeZavalla and Lake Street storm sewers. Lately noted. Address The Mayor.

Tex., Houston — City, O. F. Holcombe, Mayor, voted \$1,250,000 bonds for the following: \$200,000 bonds for gravel streets; \$500,000 for permanent paving; \$250,000 for storm

sewers; \$100,000 for White Oak Bayou; \$150,000 for Buffalo Bayou. (Lately noted.)

Tex., Houston—For proposal details see Mchy. Wanted—Storm Sewers.

Tex., Marshall—For full details see Water Works.

Tex., Van Alstyne—City votes April 23 on \$10,000 bonds for sewer construction; Ed. P. Williams, Mayor. (Supersedes previous item.)

### Telephone Systems.

Fla., Delray — C. A. B. Zook, Prest. of Pennsylvania Soap Co., Lancaster, Pa., will build radio station in connection with development of coconut grove; outfit will consist of two towers 70 ft. high with double weight wire cage, 4-in. diam. on circular hoops with 11-in. eight wire cage lead on antenna system; ground system consists of two fan shaped radial converters, poise of 16 wire covering area of 100 ft.; another of equal radius will complete chain of communication; to Lancaster, Pa., contract for concrete bases let to J. I. Thieme.

Fla., Lake Worth—Lake Worth Telephone Co., R. L. Horsman, Prest. let contract to H. J. Unwin at \$10,000 to erect 2 story, 30x68-ft. fireproof building. (Lately noted.)

Ky., Swanpond—Swan Telephone Co., incorporated by P. S. Miller, A. J. Luddy, C. B. McKnight.

Mo., Springfield—Southwestern Bell Telephone Co., main office St. Louis, Mo., will expend approx. \$100,000 within next three years on improvements; will probably install three more through line repeater units, operated in connection with long distance circuits to Oklahoma City and Dallas, electric starting device for auxiliary gas engine used in emergencies for furnishing electric current, addition of fine section of toll board, also replacing overhead and underground telephone wires and cables, etc.

N. C., Charlotte—Southern Bell Telephone & Telegraph Co., main office, St. Louis, Mo., will occupy 5 story building at 3rd and College Sts.; E. H. Clement Co., Contrs.; Lockwood, Greene & Co., Engrs., building owned by Paul Chatham, Charlotte, and Hugh Chatham, Winston-Salem, N. C.

N. C., Raleigh — Interstate Radio Corp., capital \$15,000, chartered by R. F. Ferguson, D. L. Mackay and George Harold.

Tenn., Memphis—For full details see Land Developments.

### Textile Mills.

N. C., Amazon—Amazon Cotton Mills, C. G. Hill, Prest. let contract to J. A. Gardner, Charlotte, N. C., to erect cotton mill; 488x132 ft.; 2 stories; construct picking room; J. E. Sirrine & Co., Engrs., Greenville, S. C. (Lately noted.)

N. C., Clayton—Liberty Cotton Mill Co., D. L. Barbour, Secy., lately noted increasing capital to \$300,000, will erect plant with daily output 4000 lbs. of cotton yarns; 104x135 ft.; brick; will install 5000 spindles; R. W. Ellis, Contr.; R. C. Biberstein, Archt. Charlotte; cost of building \$35,000; contract for machinery let to Whitin Machine Works, Whitinsville, Mass. (Lately noted.)

N. C., Elizabeth City—Ideal Mills, Inc., (reorganization of Ideal Hosiery Co.), capital \$125,000, M. G. Morrisette, Prest.; G. F. Wright, Mgr. and Secy.; will enlarge and remodel building on Poindexter St.

N. C., Franklinville—The Randolph Mills, Inc., capital \$400,000, inceptd. with John W. Clark, Prest.; J. Harper Erwin, Secy.; have taken over plants of Randolph Mfg. Co. and Franklinville Mfg. Co. (lately noted.)

N. C., Gastonia—Art Cloth Mills, R. L.

Stone, Prest. increased capital from \$200,000 to \$1,500,000. (Lately noted to erect weave shed, J. E. Sirrine & Co., Engrs., Greenville, S. C.)

S. C., Clinton—Lydia Cotton Mills, M. S. Bailey, Prest. let contract to J. Robt. Tucker, Clinton, to erect plant for mfr. of convertible cotton goods; 125x280 ft.; structural steel; brick and Turcon steel sash; cost \$150,000; install 500 looms; 25,000 spindles; daily capacity 40,000 yds.; electric power plant, 1500 H. P.; will probably let mchy. bids in 1925; cost \$750,000; Lockwood, Greene & Co., Engrs., Charlotte, N. C. (Lately noted.)

S. C., Groce—Pacific Mills let contract to Parklap, Inc., New York, to construct four mfg. buildings; buildings include 4 story mill house, 136x290 ft.; 2 story bleachery, 196x652 ft.; 5 story warehouse, 75x103 ft.; one story pump and boiler house 75x68 ft.; contract for steel frame work let to McClinic-Marshall Construction Co.; Lockwood, Greene & Co., Engrs., Spartansburg, (Lately noted.)

S. C., Spartansburg—Beaumont Mfg. Co., let contract to Fiske-Carter Construction Co., Spartanburg, to erect weave shed; brick; 2 stories and basement; 86½x258 ft.; walls of brick; second floor reinforced concrete; top floor and roof to have steel girders and plank floors; 636 looms; J. E. Sirrine & Co., Engrs., Greenville, S. C. (Lately noted.)

Tex., Sugarland—Sugarland Industries, G. D. Ulrich, V. P. and Gen. Mgr. has plans by M. M. Merrill & Co., Textile Engrs. of Boston, Mass., for 10,000 spindle cotton mill.

### Water Works.

Fla., Fort George, P. O. Mayport—For full details see Land Developments.

Fla., Fulford—For full details see Land Developments.

Fla., Gainesville—For full details see Sewer Construction.

Fla., Jacksonville—For full details see Electric Light and Power Plants.

Fla., Jacksonville—City will construct 5,000,000 gal. capacity reservoir on McDuff Ave., giving Riverside Ave. more adequate water supply, approx. cost \$30,000; Frank H. Owen, Commr. Public Utilities.

Fla., Miami Beach, Sta. Miami—City voted \$220,000 bonds for following improvements; \$100,000 for water works; \$20,000 bonds for street lights; \$7000 bonds for Belle Isle bridge; \$65,000 bonds for sanitary sewers; \$18,000 bonds for storm sewers; \$10,000 bonds for paving. Address The Mayor.

Fla., New Port Richey—For full details see Land Developments.

Fla., St. Petersburg—For proposal details see Mchy. Wanted—Sewer and Storm Water Drains.

Fla., Tampa—For full details see Land Developments.

La., Gibsland—City votes April 17 on \$50,000 water and electric light. (Lately noted letting contract to E. T. Archer & Co., Conslt. Engr., Shreveport, La.)

Md., Baltimore—For full details see Land Developments.

Md., Edgewood Arsenal—For proposal details see Mchy. Wanted—Water and Sewer Lines.

Miss., Canton—City voted \$75,000 bonds for constructing water and light plant. Address The Mayor.

Miss., Poplarville — For full details see Electric Light and Power Plants.

Mo., Greenfield — City contemplates improvements to water plant and installing sewerage system. Address The Mayor.

N. C., Charlotte—City, Edgar Read, City Clk. will issue \$300,000 water extension bonds for completion of new filter plant and pumping station, extending present water system, etc. (Lately noted.)

N. C., Fayetteville—City let the following contract for extension of water and sewerage system to cost approx. \$300,000: to Tucker & Laxton, Charlotte, to construct sewerage system, cost \$150,000; Chicago Bridge & Iron Works to construct elevated steel water tank; Fayetteville Supply Co. to install motor driven centrifugal pump; Palmer & Conrad of Florence, S. C., for constructing reinforced concrete reservoir; Glamorgan Pipe & Foundry Co. of Lynchburg, Va., for fire hydrants and valves for water distribution system; contract for improvement to water filtration plant was not awarded; Wm. C. Olsen, Conslt. Engr., Kingston, N. C. (Lately noted.)

N. C., Lenoir—For proposal details see Mch. Wanted—Waterworks Improvement.

N. C., Winston-Salem—For full details see Road and Street Construction.

Tenn., Madisonville—City, M. H. Valentine, Mayor, voted \$35,000 bonds for water works plant; 75,000 gal. tank, 120 ft. elevated; Ambler Engineering Co. Engr., Richmond, Va. (Lately noted.)

Tenn., Memphis—For proposal details see Mch. Wanted—Water Works.

Tenn., Memphis—For full details see Land Developments.

Tex., Corsicana—For full details see Road and Street Construction.

Tex., Dallas—City, S. R. Alredge, Mayor voted \$8,325,000 bonds for following improvements: \$5,000,000 for water works; \$1,250,000 for street improvements; \$500,000 for additional sewerage disposal facilities; \$150,000 for sanitary sewer; \$100,000 for fire stations; \$325,000 for parks and playgrounds; \$1,000,000 for public school buildings. Lately noted.

Tex., Edgewood—City votes April 28 on \$40,000 water bonds and \$15,000 electric light bonds, J. R. Greer, Mayor.

Tex., Marshall—City will vote on \$400,000 bonds; \$250,000 for schools; \$80,000 for water, \$50,000 for streets, \$20,000 for sewers. Address The Mayor.

Tex., Sweetwater—City Comsn. approved plans for construction of filtration plant; cost \$35,000.

Tex., Wolfe City—City contemplates voting on \$100,000 bonds for water and schools. Address The Mayor.

Va., Culpeper—For proposal details see Machinery Wanted—Water Works.

W. Va., Dunbar—Dunbar Water Co., capital \$30,000, incptd. by Ben C. Grossep, of Dunbar; T. B. Hodges and F. L. Thomas, Charleston, W. Va.

### Woodworking Plants.

Ala., Birmingham—Super-San Cabinet Co., capital \$10,000, incptd. with Ed. T. Halls, Prest.; R. Lewis Pake, Secy.

Fla., Clearwater—Clearwater Cooperage Co., capital \$15,000, incptd. with C. E. Murray, Prest.; E. H. Mitchell, Secy.-Treas.

Fla., Kissimmee—Wood-Tex Co., Inc. lately noted incptd. capital \$100,000 organized with H. A. Hunter, Prest.; P. Johnson, Secy.; P. C. Buttorff, Mgr. has plant and mch. installed for mfr. of wood and asphalt blocks for paving, floor covers, etc.

Fla., Tampa—Tampa Furniture Co., Inc., capital \$150,000, re-organized with D. F. Owen, Prest. have taken over Tampa Furniture Co.

Ky., London—Steele & Southerland Furniture Co., capital \$25,000, incptd. by W. H. Steele, R. H. Southerland and others.

Md., Baltimore — Furniture — Potthast Brothers 702 N. Howard St. has acquired 3 story and basement building at 920 N. Charles St., will remodel.

Miss., Ripley—Shuttle Blocks—L. D. Haynes has under construction mill for sawing shuttle blocks made of dogwood.

Mo., St. Louis—Landau Cabinet Co., Alex. Landau, Prest. will erect addition to factory, containing approx. 20,000 sq. ft.

Mo., St. Louis—Biederman Furniture Co., capital \$30,000, incptd. by Emanuel, Sampson and Charles Biederman.

N. C., High Point—Tate Furniture Co., A. E. Tate, Propr. will erect \$10,000 addition to plant, brick construction; work under direction of E. T. Hendrick.

N. C., Lexington—Furniture—J. T. Hedrick acquired all outstanding stock of the Elk Furniture Co.; will erect plant containing 110,000 sq. ft. floor space, install sprinkler system; new machine room will be 3 story, 97 ft. 6 in. x 195 ft., will remodel shipping building; mch. all purchased; mfr. bed-room furniture. (Lately noted portion of plant burned at loss of \$70,000.)

N. C., New Bern—Neuse Veneer & Box Co., increased capital from \$50,000 to \$75,000.

N. C., Sanford — Lee Furniture Co., increased capital from \$25,000 to \$125,000.

N. C., Walkertown—Walkertown Chair Co., (lately noted incptd., capital \$100,000) organized with W. N. Poindexter, Prest.; R. B. Ogburn, Secy.-Treas.; W. N. Poindexter, Jr., Gen. Mgr.; will erect 50x100-ft. ordinary construction building; bids open; install wood-working mch. for mfr. of oak chairs, daily capacity 500; bids open. (See Mch. Wanted—Boilers; Engines; Pulleys, etc.)

N. C., Wilmington—Handles, etc.—E. C. Brinser's Sons, Inc., of Richmond, Va., reported to establish branch plant for mfr. of handles, base ball bats, rakes, etc.

S. C., Barnwell — Barnwell Veneer Co., Samuel B. Coffin, Prest., High Point, N. C. will erect plant, with daily capacity between 75,000 and 100,000 ft. veneer; has site.

S. C., Greenville—Jones Furniture Co., capital \$50,000, incptd. with A. H. Jones, Prest.-Treas.; O. M. Benton, V. P.-Secy.

S. C., White Hall—Oak & Gum Stave Co., capital \$10,000, incptd. with T. S. Boyntong, Prest.-Secy.; S. P. Hale, V. P.

Tex., Houston—Walker Furniture Co., capital \$100,000, incptd. by A. B. Walker, D. W. Morrow and others.

Tex., Lufkin—Lufkin Chair & Handle Co., R. T. Gann, Secy. have under construction 2 buildings, 40x60-ft. and 40x80-ft., concrete floor, iron sides and roof, construction by owners; install mch. for mfr. of chairs and handles; mch. probably purchased. (Lately noted to rebuild burned plant.)

Tex., Port Arthur—Phoenix Furniture Co., capital \$100,000, incptd. by A. M. Kaufman, G. E. Stoveall and S. O. Latimer.

Va., Pulaski—Coleman-Vaughan Furniture Co., capital \$250,000, incptd. with T. C. Coleman, Prest.-Mgr.; B. C. Vaughan, V. P.; J. B. Coleman, Secy.; will erect \$60,000 to \$75,000 brick building; invite bids; install wood-working mch.; mfr. bedroom furniture. (See Mch. Wanted—Woodworking Machinery.)

## FIRE DAMAGE

Ala., Birmingham — Packard Birmingham Motor Car Co.'s store; loss \$300,000.

Ala., Gurley—Tennessee Valley Bank; Williamson Drug Co., Thomas Barber Shop, Peake Garage, Graham & Son, J. W. Joplin, Sam True and W. A. Given's buildings; loss \$90,000.

Ark., Calico Rock—Golden Rule Store; Garner's Warehouse; Garner's Mercantile Store; Hayden's Mercantile Store; Sharp & Jones Mercantile Co.'s building; Clark's Store; Wiseman Hotel; Calico Rock Progress office.

Ark., Delaplaine—Missouri Pacific R. R.'s depot; loss \$100,000; E. A. Hadley, Ch. Engr., St. Louis, Mo.

D. C., Washington — Thos. J. Shryock & Co.'s lumber yard at Capitol and G Sts., S. W., Wm. R. Miller, Mgr.; loss \$75,000.

Ga., Lawrenceville—G. W. Williams' store.

Ky., Clay—Rex Moving Picture Theater.

Ky., Trenton — H. H. Bellamy, Chestnut Bros. & Glascock, Hal McCheney, Chas. House and Robt. Ramsey's buildings.

La., New Orleans—American Tar & Turpentine Co.'s plant on Broad St.; loss \$100,000.

Md., Baltimore—Baltimore Paint & Color Works, Frederick and Calverton Rds.; loss \$50,000.

Miss., Richton—Canal Lumber Co.'s saw mill; loss \$50,000.

N. C., Charlotte—Cochrane & Ross's warehouse at 204 North A St. owned by Dr. Albert Dunbain, Tuxedo.

N. C., Greensboro—Doggett Building on S. Elm St. owned by W. O. Doggett, Browns Summit; Hub Shoe Store owned by Hyman Bros.

N. C., Reidsville — Building occupied by Union Motor Co.

N. C., Sylva—Commercial Hotel; (address The Proprietor) Ledford Furniture Co.'s store; loss \$50,000.

Okla., Oklahoma City—Oklahoma Wholesale Grocery Co.'s store.

S. C., Chester—Ira A. Cornwell's residence, 12 miles from Chester.

S. C., Spartanburg—Main plant of Farmers' Fertilizer Works; loss \$20,000.

Tenn., Columbia—Red Seal Bakery; loss \$8,000.

Tenn., Hendersonville—Christian Church. Address The Pastor.

Tenn., St. Elmo (Branch of Chattanooga) —C. F. Krichbaum's residence.

Tex., Cross Plains—L. & S. Cafe; Majestic Theater; Texas Cafe; G. W. Cunningham's store.

Va., Appomattox—L. S. Ferguson's building; W. J. Legrand's meat market; Brown & Smith's building.

Va., Big Stone Gap—Dwelling on Poplar Hill owned by Major J. F. Bullitt and occupied by R. T. Taggart.

Va., Eastville—Edw. Holland's warehouse. Va., Lynchburg—Smith's Furniture Store; Legrand's Meat Market; J. O. Bryant's store; Brown & Smith's building; Norfolk & Western R. R. station, J. E. Crawford, Ch. Engr., Norfolk.

Va., Stone Mountain—Oak Hill, W. H. Daggett's residence.

W. Va., Weirton—Box factory, sorting and shipping room of the Weirton Steel Co.; loss \$25,000.

W. Va., Wheeling—U. S. Corrugated Fiber Box Co.'s plant at Seventeenth St. Warwood; loss \$250,000.

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# BUILDING NEWS

## BUILDINGS PROPOSED

### Apartment Houses.

Fla., Lakeland—E. L. Tiller will erect 2-story residence and apartment building, Osceola St.; stucco; 6 rooms on first floor, two 3-room suites above; construction begun.

Fla., Miami Beach—H. L. Belcher will erect \$50,000 apartment house, Ocean Dr. near 8th St.; Spanish type; 3 stories; hollow tile; stucco finish; red mission tile roof; 18 suites; August Geiger, Archt., Miami.

N. C., Wilson—Jesse B. Williams will receive bids until April 25 at office Benton & Benton, Archts., to erect and complete 4-story apartment building, Goldsboro St. near Vance St.; brick and stone; 35 suites; plans from Archts. (Lately noted.)

N. C., Winston-Salem—E. W. Noble will erect \$40,000 apartment house, West End Blvd. and Buxton St.; 2 stories and basement; hollow tile and concrete; fireproof; six 4 and 5-room suites; separate entrances; C. Gilbert Humphries, Archt.; excavation completed.

S. C., Columbia—V. R. Elkin will erect frame apartment house; 80x40½ ft.; 2 stories; pine floors; concrete and brick foundation; asphaltic slate roof; 16 rooms; 4 suites; 4 baths; separate entrances; plans by Robt. J. Sinschmidt; construction by owner. (Lately noted.)

S. C., Columbia—C. D. Boling will erect 2-story brick veneer and stucco apartment house, Laurens and Pendleton Sts.; two 5-room suites; Lafaye & Lafaye, Archts.; bids opened.

Tenn., Memphis—J. J. Collins will erect \$35,000 to \$40,000 duplex apartment building, Overton Park Ave. and Buena Vista St.; stonekote; variegated tile roof; hot water heat; 2 baths in each suite; stone walls in sun parlors; 2 garages with servants' quarters in rear; Mahan & Broadwell, Archts.

Tenn., Nashville—G. H. King and others will erect 2-story addition to apartment house, 28th St. and West End; brick and stone; \$35,000.

Tex., Houston—Tony Caldereva will erect \$18,000 two-story brick apartment house, Albany St.

Tex., Houston—Dr. E. B. Kenner will erect \$19,000 brick veneer flat, Hawthorne St.

Tex., Houston—Moon & Babbitt will erect \$17,500 duplex building, Sull Ross Ave.

W. Va., Logan—C. S. Minter and W. V. McNemar will erect fireproof apartment house; 3 stories and basement; 51x125 ft.; brick, concrete and steel; 33 suites.

### Association and Fraternal.

Fla., Palm Beach—Palm Beach Shrine Club, Bruce Kitchell, Prest., will erect clubhouse, Park Ave.; \$57,000, including site and furnishings; plans by Mr. Kitchell.

La., Natchitoches—Ancient Free and Accepted Masons will erect \$60,000 temple; J. W. Smith, Archt., Monroe.

La., Slidel—Ancient Free & Accepted Masons will erect temple; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg., New Orleans.

Mo., Republic—Ancient Free and Accepted Masons will erect \$20,000 Temple. Address The Mayor.

Tex., Galveston—Young Men's Christian Assn. plans to erect \$40,000 to \$50,000 addition to building, 23rd St. and Avenue G; swimming pool in basement, lockers, etc.;

bids opened; also plans to remodel present building later.

### Bank and Office.

Fla., Umatilla—Bank of Umatilla will erect \$20,000 building.

Ga., Atlanta—Lowry National Bank & Trust Co. of Georgia will expend \$250,000 to remodel and enlarge Trust Co. of Georgia Bldg.

Ga., Cornelia—Edwards & Sayward, Chamber of Commerce Bldg., Atlanta, Ga., prepared plans for \$75,000 two-story bank building.

Mo., Cardwell—First National Bank, J. F. Birchett, Pres., will erect addition to bank building and install new fixtures.

N. C., Greensboro—W. C. Boren is considering erecting 5-story office building for lawyers; probably \$75,000 to \$100,000; brick; fireproof; 50-ft. frontage; 40 offices, exclusive of law library.

N. C., New Bern—Owen G. Dunn will erect 4-story office building, Pollock St. opposite post office.

N. C., Wilmington—Co-Operative Bldg. & Loan Assn., Jos. H. Hinton, Prest., will erect office building; Carolina Engineering Co., Archt.

Tenn., Lenoir—Union Trust Co., J. W. Bussell, Jr., Pres., will erect \$40,000 three-story brick business block; bank to occupy part of building.

Tenn., Memphis—Dave Derrmon reported to erect 12-story office building, Court Ave. and 3rd St.; \$1,000,000; C. O. Pfell, probable architect.

Tex., Cameron—Cameron State Bank will remodel 1-story brick building, lately noted; 33x75 ft.; concrete and tile floor; gravel roof; hot water heat; hollow fireproof and interior tile; metal ceilings; metal vault doors; vault; Paul G. Silber & Co., Archts., San Antonio; bids opened about May 1. (See Mch. Wanted—Heating Plant; Plumbing; Electrical Wiring; Bank Fixtures; Vault.)

Tex., Munday—First National Bank will erect \$30,000 two-story brick bank building; David S. Castle & Co., Archts., Dallas.

Tex., Olney—First National Bank will erect \$40,000 two-story building; David S. Castle & Co., Archts., Dallas.

Tex., Winters—Winters State Bank will erect brick and stone building, lately noted; 56x88 ft.; 2 stories; hardwood, concrete and tile floors; gravel roof; vapor steam heat; hollow fireproof and interior tile; metal ceilings; vaults; Paul G. Silber & Co., Archts., San Antonio; bids opened April 30. (See Mch. Wanted—Plumbing; Heating Plant; Electrical Wiring; Vault Equipment; Bank Fixtures.)

Va., Hopewell—Tubize Artificial Silk Co. is reported to erect office building and construct road.

### Churches.

Ala., Huntsville—First Methodist Church will erect \$40,000 Sunday school addition. Address The Pastor.

Fla., Jacksonville—Main St. Baptist Church will erect auditorium. Address The Pastor.

Fla., Lakeland—Church of Christ, Scientist, plans to erect Gothic type building, Walnut

St. near Florida Ave.; \$10,000 to \$12,000. Address The Reader.

Fla., West Palm Beach—Hotel Poinciana will enlarge chapel. Address Dr. Geo. Morgan Ward.

Ky., Dalna—Letcher County Mining Co. will erect church. (See Dwellings.)

La., Luling—Wm. R. Burk, 411 Balter Bldg., New Orleans, is preparing plans for \$10,000 Catholic Church.

La., New Orleans—First Church of Christ, Scientist, W. T. J. Stephens, 808 Nashville Ave., Chmn. Bldg. Comm., will erect \$30,000 Sunday school addition, Nashville Ave. and Garfield St.; 2 stories; brick; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg. (Previously noted.)

Miss., Jackson—Baptist Church, Rev. W. A. Hewitt, Pastor, plans to erect building.

Miss., Jackson—Second Baptist Church, Dr. H. M. King, Pastor, will erect \$150,000 building; R. H. Hunt, Archt., Chattanooga, Tenn.

N. C., Rocky Mount—First Presbyterian Church plans to erect \$40,000 Sunday school annex, W. Thomas St. Address The Pastor.

N. C., Thomasville—West End M. P. Church, Rev. M. L. Moose, Pastor, will erect building, Lexington Ave.

N. C., Westfield—Baptist Church, Rev. O. E. Ward, Pastor, plans to erect \$10,000 building.

Okla., Pauls Valley—Christian Church purchased site and plans to erect church and parsonage. Address The Pastor.

S. C., Allendale—Baptist Church will erect building. Address The Pastor.

Tenn., Athens—Baptist Church will erect building. Address The Pastor.

Tenn., Chattanooga—Highland Park M. E. Church, South, Rev. W. M. Morrell, Pastor, will erect \$50,000 Sunday school addition; probably 2 stories and basement.

Tenn., Chattanooga—Mt. Carmel Baptist Church, will erect \$15,000 building, Washington St. near 17th St.; brick. Address The Pastor.

Tenn., Chattanooga—Alexander Simpson, Jr., Memorial M. E. Church, McFarland Ave. and Maple St., plans to erect Sunday school annex. Address The Pastor.

Tenn., Fountain Inn—Methodist Church, Rev. Wm. Henry Polk, Pastor, will erect \$20,000 building.

Tenn., Fountain Inn—Presbyterian Church is considering erecting Sunday school addition. Address The Pastor.

Tenn., Henderson—M. E. Church, South, J. F. O'Neal, Chmn. Bldg. Comm., will erect \$10,000 brick addition; 74x47.6 ft.; 3 stories; cement and wood floors; brick foundation; metal shingle roof; bids for construction of building and heating plant opened May 1. (Lately noted.)

Tenn., Memphis—St. Paul's Methodist Church, Euclid and Rozell Sts., Rev. John M. Jenkins, Pastor, will erect \$50,000 building to replace present structure; Hubert T. McGhee, Archt.

Tenn., Ridgely—Methodist Church plans to erect \$30,000 building to replace burned structure; basement; pipe organ. Address The Pastor.

Tenn., South Pittsburgh—Baptist Church, Paul R. Hodge, Pastor, plans to erect \$10,000 addition; R. H. Hunt, Archt., Chattanooga.

Tex., Breckenridge—First Presbyterian Church will erect superstructure; C. E. Praeger, Archt.; bids opened. (Lately noted.)

Tex., Georgetown—Methodist Church considering erecting Sunday school addition. Address The Pastor.

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Va., Bedford—St. John's Episcopal Church, A. J. Cauthorn, Secy. Bldg. Comm., will erect \$25,000 building, N. Bridge St.; bids opened April 16. (Previously noted.)

Va., Norfolk — Larchmont Methodist Church, J. M. Fentress, Chmn. Bldg. Comm., plans to erect church and Sunday school buildings, Jamestown Blvd., Monroe Place and Larchmont Crescent; total \$100,000.

Va., Richmond — Grace Street Baptist Church will raze present structure and erect 3-story Sunday school annex; Carneal & Johnston, Archts.

W. Va., Huntington—Baptist Temple, 9th Ave. and 21st St., will erect \$80,000 building; L. J. Dean, Archt. (Previously noted.)

### City and County.

D. C., Washington—Police Station—City, Roland M. Brennan, Ch. Clk., Dist. Gov. Engr. Dept., will erect Twelfth precinct police station, 17th St. and Rhode Island Ave., N. E.; \$60,000 appropriation available.

Fla., Avon Park—Jail—City will erect fireproof jail; 2 cells. Address City Council.

Tex., Dallas—Fire Stations — City voted \$150,000 bonds for fire stations.

Tex., Teague—City Hall — City Council plans to erect city hall.

Tex., Waco—City Hall—City, Ben C. Richards, Mayor, will vote May 29 on \$325,000 bonds to erect and equip city hall. (Lately noted.)

Va., Norfolk—Police Station—City, Chas. E. Ashburner, City Mgr., will erect \$20,000 police precinct house; 2 stories; 40x90 ft.; concrete, tile and hardwood floors; concrete foundation; tar and gravel roof; interior tile; metal doors; ventilators; K. L. Hullsick Co., Archt.-Engr., 400 Flat Iron Bldg.; bids opened April 16.

### Courthouses.

Fla., Orlando — Orange County Commrs. plan to erect courthouse; Murray S. King, probable archt.

### Dwellings.

D. C., Washington—W. S. Phillips, 1409 New York Ave., will erect 323 detached and semi-detached dwellings, Wisconsin Ave. and Warren St., North Cleveland Park; brick; will also erect 90 dwellings of various types, Fessenden St. at Connecticut Ave., 38th and Fulton Sts., 6th and Whittier Sts. and 8th and Butternut Sts.

Fla., Kelsey City—Virgil D. Chandler, Huntington, W. Va., will erect pressed stone residence; Wm. Manly King, Archt., West Palm Beach.

Fla., Kelsey City—W. H. Fisher will erect pressed stone residence; Wm. Manly King, Archt., West Palm Beach.

Fla., Miami—Atlantic Realty Co., C. A. McMickle, Prest., will erect dwellings in connection with land development, principally stucco

Fla., Miami—Albert D. Howlett, Albert D. Howlett Co., Boston, Mass., will erect \$12,000 two-story concrete residence.

Fla., Miami—Chas. E. Jones will erect \$10,000 residence, Del Rosa Blvd. and San Marco Dr., Fair Lawn subdivision west of Miami; Spanish type; 1-story; concrete; Spanish tile roof; concrete garage.

Fla., Miami—Dr. Lova Woods Walbridge, Rochester, N. Y., will erect \$15,000 residence, San Marino Blvd. and San Marco Dr.

Fla., Tavares—P. M. Daugherty, Salem, Va., will erect residence, Eustis-Tavares Rd.

Ky., Ashland—Atty. B. S. Wilson will

erect 6-room dwelling, Country Club Dr.; will also erect 3 more later.

Ky., Blackey—H. B. Branson will erect 6 dwellings; \$2000 each; contract at once.

Ky., Dalna—Letcher County Mining Co. will erect 20 miners' houses, tippie and church; contract in 2 weeks.

Ky., Mayking—Mayking Coal Corp. will erect 12 new miners' houses.

Ky., Viper—Liggett Coal Mining Co. will erect 20 miners' houses at Dakota near Viper; contract in 2 weeks.

La., New Orleans—H. L. Swift will erect \$35,000 residence, Audubon Blvd.; 2 stories; hollow tile; brick faced; stone trim; tile roof; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg.

La., New Orleans—Mrs. B. Diebert will erect \$10,500 cottage, S. Solomon and Ulloa Sts.

Md., Baltimore—Geo. H. Kessling, 4107 Ridgewood St., will erect 2 two-story frame dwellings, east side Gwynn Oak Ave., north of Haddon St., 28x36 ft.; total \$11,400.

Md., Baltimore—Aug. J. Oldenburg, 223 Oakmont Ave., will erect 3 dwellings, S. W. cor. Elmer and Singer aves., 7, south side Singer Ave., east of Beaufort Ave., and 9, N. E. cor. Oakmont and Beaufort Aves.; all 2 stories; brick; ten 20x31 ft., nine 20x36 ft.; Carey roofs; steam heat; \$2500 each; G. Hyatt, Archt., 702 Gorsuch Ave.; owner builds.

Mo., St. Charles—Wm. F. Huning will erect a number of dwellings in Fairgrounds subdivision.

Mo., Warrenton—H. H. Buschmann will erect residence.

Mo., Warrenton—Andrew C. Busekrus plans to erect residence.

N. C., Rutherfordton—Dr. F. W. H. Logan will erect bungalow.

N. C., Rutherfordton—K. E. Simpson will erect bungalow.

S. C., Greer—W. M. Thompson, Greenville and Greer, will erect 2-story residence; Beacham & LeGrand, Archts., Greenville. (Previously noted.)

Tenn., Chattanooga—A. P. Porter, James Bldg., will erect \$15,000 residence, Hixson Pike; 2 stories; 45x45 ft.; brick; wood joist, concrete and hardwood floors; brick and concrete foundation; asbestos roof; hollow fireproof tile; metal doors; wire glass; Louis H. Bull, Archt., Volunteer Bldg. (Lately noted.)

Tex., Austin—Dr. Frank C. Gregg will erect \$18,500 residence in Enfield addition; 2 stories; hollow tile and stucco.

Tex., Austin—Kurt Schmedes will erect \$18,000 two-story brick veneer residence, Baylor St.; Glesecke & Harris, Archt., Littlefield Bldg.

Tex., El Paso—Herbert W. Gehring & Co. will erect \$8500 residence, 512 Cincinnati St.; also 5 dwellings, Silver St. near N. Piedras St.; \$5000 each.

Tex., Fort Worth—Ira Miller will erect \$17,750 dwelling, 1937 Barkley St., and \$18,500 dwelling, 1924 Barkley St.

Tex., Galveston—Jas. A. Hawkins will erect number of houses in connection with development of summer camp. (See Stores.)

Tex., Houston—Miss Haywood Nelms will erect \$17,000 brick and stucco residence, Alabama St.

Tex., Houston—Hugh Wilkins will erect two \$10,500 dwellings, Willard St.; 5 rooms; frame.

Va., Roanoke—J. Early St. Clair will erect \$10,000 bungalow, 518 Grandin Rd.; stucco.

W. Va., Charleston—Reed Bigley & Co. will erect 8-room residence on Maple Rd., Edgewood; \$12,000; 28x36 ft.; 2 stories; concrete and brick foundation; tile roof; hardwood floors; hollow fireproof and interior tile; other dwellings under construction. (Lately noted.)

W. Va., Charleston—Edward Hess will erect 6 dwellings, 1529-31 Virginia St.; total \$59,000.

W. Va., Charleston—Chas. E. Hill will erect \$10,000 residence, Delaware Ave.

W. Va., Fairmont—J. R. Sheridan will erect \$12,000 residence, Sunset Dr., off Oakwood Rd.; 2½ stories; 26x37.6 ft.; brick and tile; oak floors; tile and brick foundation; composition shingle roof; M. A. Watkins & Co., Archts.; owner builds; Luthy Plumbing Co., plumbing; all sub-contracts let. (Lately noted.)

W. Va., Fairmont—Greater Fairmont Investment Co. will erect 6 frame dwellings; shingle roof; concrete cellar; electric lights; to sell at \$4000 to \$4500 each; F. Donald Fenhagen, Constr. Supervisor.

W. Va., Fairmont—Sterling Heights Co. will erect 4 frame dwellings; shingle roof; concrete cellar; electric lights; to sell at \$4000 to \$4500 each; F. Donald Fenhagen, Constr. Supervisor.

W. Va., Fairmont—Wrightwheel Development Co. will erect 4 frame dwellings; shingle roof; concrete cellar; electric lights; to sell at \$4000 to \$4500 each; F. Donald Fenhagen, Constr. Supervisor.

W. Va., Welch—L. A. Osborne will erect \$30,000 brick and hollow tile residence, Riverside Dr.

W. Va., Welch—Chester Harman and Reese Helmandollar will erect 2-story frame dwelling, Riverside Dr.

### Hospitals Sanitariums, Etc.

Ala., Mobile—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., will receive bids until May 11 for construction of medical officer's quarters at United States Marine Hospital; drawings and specifications from Custodian at site or from office Supervising Archt.

Ga., Alto—State Board of Health, Dr. T. F. Abercrombie, Exec. Officer, State Capitol, Atlanta, will erect \$500,000 Tuberculosis Sanatorium near Alto; administration and 2 infirmary buildings, quarters for colored help, power plant and laundry building, including central heating plant and sanitary system; Spanish architecture; fireproof; stucco exterior; terra cotta trim; tile roof; buildings connected by arcade; Daniel & Beutell, Archts., Healey Bldg., Atlanta. Address Dr. Abercrombie.

Mo., Macon—Dr. E. S. Smith, 106 Vine St., will erect \$40,000 brick hospital on Bourke St., lately noted; 2 stories; flat roof; hardwood and concrete floors; interior tile; ornamental terra cotta; solarium on roof. (See Mch. Wanted—Plumbing Equipment; Hospital Equipment; Elevator; Awnings.)

Okla., Muskogee—Oklahoma Soldiers' Relief Comsn. will erect personnel building at U. S. Veterans' Hospital, Honor Heights; bids opened April 13.

Tex., Houston—Baptist Sanitarium will erect \$325,000 annex; 7 and 8 stories; bids opened.

### Hotels.

Fla., Lakeland—J. O. Plott will erect hotel to be leased by H. D. Washburn; 3 stories; 80x80 ft.; brick; terra cotta trim; J. W. Helm, Archt., Avon Park.

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Fla., Miami—I. H. Bradshaw will erect \$100,000 hotel at 12th St. and Second Ave.; 3 stories; 100 ft. frontage; 100 rooms; J. M. Sealthorpe, Archt.

Fla., Miami—Jno. A. Gardner will erect Royalton Hotel; \$100,000; 6 stories; fireproof; 57 rooms with baths; Geo. Pfeiffer, Archt.

Fla., Miami—J. Arthur Pancoast will erect \$750,000 structure to be known as The Pancoast; 125 rooms.

Fla., South Palm Beach—South Palm Beach Inn will erect first floor addition, extending over lake, for dining and ball rooms; remodel present dining room for 50 bed rooms.

Fla., West Palm Beach—Mayor L. C. Biggers, Chas. S. Adams, Contr., Pleasantville, N. J.; Jno. F. Ryon, Atlantic City, N. J. and others, will erect hotel on Carmichael property; fireproof; 400 rooms; plans ready May 10; Wm. Manly King, Archt. (Lately noted.)

Fla., Winter Park—Alabama Hotel Co. will erect addition; 56 rooms and kitchen.

N. C., Asheville — Citizens' Hotel Corp. will erect \$1,000,000 George Vanderbilt Hotel; Haywood and Vanderbilt Sts.; 9 stories; 78x170 ft.; fireproof; steel, granite, terra cotta and brick; 210 guest rooms with tile bath, built-in tubs, showers; automatic fire alarm system; elevator shafts, fire and smoke proof; staircases to have fireproof enclosures, fire doors, etc.; Wm. L. Stoddard, Archt., will meet builders at Asheville on April 23 to receive bids. (Previously noted.)

Okla., Wewoka—Frank H. Reed, Tulsa, does not contemplate erection of hotel as lately reported.

Tenn., Memphis — R. M. Hammond purchased 4-story brick building on Third St. between Adams and Jefferson Aves. and plans to remodel for hotel; 50 rooms.

Tex., Austin—Baker Hotel Co., T. B. Baker, Prest., let contract for excavation of foundation for \$600,000 hotel at 7th St. and Congress Ave. to Austin Granite Gravel Co., Scarborough Bldg., Houston; 11 stories and basement; steel, concrete and brick; ornamental stone and terra cotta trim; Sanguinet, Staats & Hedrick, Archts., Fort Worth; bids for general contract let April 23. (Lately noted.)

Tex., Cleburne—Baldwin-Lewis Hotel Co. and Citizens' Hotel Co. will erect 65-room hotel; 4 stories; brick and concrete; H. O. Atchison, Archt., Fort Worth. (Lately noted.)

W. Va., White Sulphur Springs—Grey-stones Hotel Co., D. Oscar O'Connell, Prest., will erect building; \$175,000; 4 stories; 116 rooms; gray stone and stucco; Wysong & Jones, Archts., Charleston.

### Miscellaneous.

Ala., Mobile—Clubhouse—Athenstan Club. Thos. M. Stevens, Prest., will remodel and probably erect addition to building lately noted damaged by fire at loss of \$75,000.

Fla., Fort George (P. O. Mayport)—Clubhouse etc.—Fort George Corporation, Victor Blue, Prest., will develop 208 acres on Fort George Island for Army and Navy Country Club of Florida; erect clubhouse, cottages; install electric lights, septic tank, etc.; \$50,000.

La., Monroe—Orphanage—Louisiana Baptist Orphanage, Dr. F. C. Flowers, Supt., Lake Charles, will erect 5 cottages on Kansas plantation near Monroe; \$126,000; J. W. Smith, Archt., Monroe. (Lately noted.)

Mo., Palmyra—Memorial—Memorial Hall Assn., S. N. Glisson, Prest., will erect building.

N. C., Charlotte—Clubhouse — Charlotte Woman's Club, Mrs. W. T. Shore, Prest., will erect \$35,000 clubhouse on E. Morehead St.

Tenn., Knoxville—Auditorium—East Tennessee Fair Assn., H. T. Lucas, Mgr., Box 683, will erect building in Chilwee Park; \$10,000; 1 story; 72x200 ft.; frame; hardwood floors; composition roof; cement and brick foundation; C. C. Deaderick, Eng. (Lately noted.)

W. Va., Charleston—Armory—West Virginia Land & Improvement Co., E. M. Keatley, Prest., will receive bids until May 10 to erect armory; \$100,000; 13 stories; 100x100 ft. and 36x100 ft.; electric lights; Herbert S. Kyle, Archt., Union Trust Bldg.

W. Va., Charleston—Clubhouse—Kanawha Holding Corp., H. R. Stapp, Prest., 812 Kanawha St., will erect \$125,000 clubhouse; 1 story and mezzanine; 60x300 ft.; stucco and hollow tile; concrete, hardwood and tile floors; interior tile; steel sash and trim; wire glass; concrete foundation; tile roof; Louis J. B. Lott, Archt., Dayton, Ohio. (Previously noted.)

### Schools.

Ala., Jasper—School Board will receive bids until April 27 to erect West Jasper School; 5 rooms; hollow tile.

D. C., Washington—Catholic University of America will erect \$400,000 stadium; reinforced concrete; 440 by 280 feet; will build at once sufficient portion of stands to seat 8000; draining and grading athletic field to begin by May 1. (Lately noted.)

Ga., East Point—School Dist. voted \$75,000 bonds. Address Dist. School Trustees.

Ky., Louisville—Southern Baptist Theological Seminary, Dr. E. Y. Mullins, Prest., 1311 Cherokee Rd., will expend \$3,000,000 for improvements within near future; ultimate plans call for 21 structures; will erect Norton Hall and dormitory at present; 2 and 3 stories; Jas. Gamble Rogers, Archt., 367 Lexington Ave., Louisville; Olmstead Bros., Landscape Archts., Brookline, Mass.

La., Baton Rouge—Louisiana State University Bldg. Comm., Dalton Raymond, Chmn., will erect Hill Memorial Library at Greater Agricultural College; \$300,000; 2 stories and basement; 200x135 ft.; auditorium to seat 4000; Theo. C. Link, Archt., Fourth Floor, Capitol Bldg.

La., Columbia—Caldwell Parish School Board plans to erect high school and primary school; considering election on \$100,000 bonds.

La., Farmerville—Union Parish Board of Education plans to erect school; \$35,000.

La., Gilliam—School Dist. No. 13 plans to erect building. Address Caddo Parish School Board, Shreveport.

La., Oil City—School Dist. No. 14 plans to erect \$75,000 high school. Address Caddo Parish School Board, Shreveport.

Md., Baltimore—Board of Awards, Mayor Wm. F. Broening, Pres., will receive duplicate bids until May 2 at office Richard Gwinn, City Register, City Hall, to erect elementary school at First and Nevada Sts., Westport; proposals on building complete or separately on heating, ventilating and vacuum cleaning system, plumbing system, and electric wiring and fixtures; plans and specifications at office H. G. Perring, Supervising Engr. Public Improvement Comsn., Maryland Casualty Bldg.

Miss., McComb—Board of Education, J. B. Alford, Prest., plans to erect schools and repair present structures; considering election on \$150,000 bonds.

Miss., Pascagoula—City, J. R. Watts, Mayor, plans to erect high school and re-

pair building; \$56,000; H. D. Shaw, Archt., Gulfport. (Lately noted.)

Miss., Phoenix—School Board will improve school and erect teacherage; \$15,000 bonds voted.

Miss., Pope—Board of Education will erect \$15,000 school; 1 story; brick; 5 classrooms and auditorium; Raymond B. Spencer, Archt., Memphis, Tenn.

Miss., Tupelo—Lee County School Board plans to erect agricultural high school; considering issuing \$75,000 bonds.

Mo., Aurora—Board of Education will receive bids until April 25 at office Earl Hawkins & Co., Springfield, to erect high school; \$75,000; 3 stories; fireproof; brick; 12 classrooms, manual training and domestic science laboratories, gymnasium and auditorium. (Lately noted.)

Mo., Bevier—Bevier School Dist. defeated \$20,000 bonds to erect annex to school. (Lately noted.)

Mo., Cameron—Board of Education will erect high school; 8 rooms and auditorium to seat 1500; also improve Southside School; election April 21 on \$80,000 bonds. (Lately noted.)

Mo., Cassville—School Board will erect high school; \$15,000 bonds voted. (Lately noted.)

Mo., Columbia—County School Board will erect schools in Turner Dist. No. 68 and Robinson Dist. No. 6; \$5000 each.

Mo., Crane—School Dist. Trustees plan to call election on \$30,000 bonds.

Mo., Delta—Board of Education will erect addition to high school; \$17,000; 4 class rooms and auditorium.

Mo., Hermann—Hermann School Dist. Trustees will erect high school; \$50,000 bonds voted. (Lately noted.)

Mo., Holliday—Holliday School Dist. defeated \$24,000 bonds to erect building. (Lately noted.)

Mo., Joplin—Board of Education, Jesse A. Zook, Secy., will erect and repair schools; \$75,000 bonds voted.

Mo., Marionville—School Dist. Trustees will erect \$27,000 building to replace structure lately noted burned.

Mo., Paris—Duncan's Bridge, Woodlawn, Phelps and Capps school districts plan to erect consolidated high school. Address Monroe County School Board.

Mo., Trenton—Board of Education will erect high school and ward buildings; \$200,000 bonds voted. (Lately noted.)

Mo., Wilcox—Wilcox Consolidated School Dist. defeated \$40,000 bonds to erect school building. (Lately noted.)

N. C., Buie's Creek—Buie's Creek Academy will erect dormitory; 2 stories; 45 rooms; brick; J. M. Kennedy, Archt., Raleigh.

N. C., Charlotte—County Board of Education, J. M. Matthews, Supt., will erect addition to school at Hoskins; \$12,000.

N. C., Durham—Trinity College will erect Kilgo Building for school of religious education.

N. C., Mount Airy—School Board will erect 16-room addition to high school and enlarge high school auditorium, repair Rockford St. building, improve N. Main Graded School, remodel colored school, etc.; \$60,000 bonds voted. (Lately noted.)

N. C., Paw Creek—Mecklenburg County Board of Education, J. M. Matthews, Supt., Charlotte, will erect 4-room addition and enlarge auditorium of school; \$15,000; brick veneer; Louis H. Asbury, Archt., Charlotte.

N. C., Raleigh—State School for Blind

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Building Committee, R. S. Busbee, Chmn., will receive bids until April 30 to erect 2 typical cottages, engineer's cottage, library building, gymnasium, cold storage building and industrial building; plans and specifications at office State School for Blind, W. Jones and McDowell Sts., and office Jas. A. Salter, Archt., 102 W. Hargett St.

N. C., Rutherfordton—Rutherfordton, Spindale, Ruth, Oakland and other schools plan to consolidate and erect \$150,000 to \$200,000 high school. Address School Trustees.

Okla., Beggs—School Board of District No. 4, J. I. Belford, Clk., will erect 2-story brick high school for negroes and grade school; Harry C. Schwabke, Archt., Claremore.

Okla., Cordell—School Board will erect high school; 9 rooms; \$40,000 bonds voted.

Okla., Cushing—Board of Education will erect gymnasium and auditorium and equip high school; \$95,000 bonds voted. (Lately noted.)

Okla., Spiro—Board of Education will erect high school; \$25,000; 115x112 ft.; 2 stories; brick and frame; steel trusses; wood floors; concrete foundation; built-up roof; metal ceilings; steel sash; ventilators; steam heat; Haralson & Nelson, Archts., Merchants Bank Bldg., Fort Smith, Ark. (Lately noted.)

S. C., Florence—School Board will erect building at Tans Bay; 2 stories; 7 classrooms and auditorium; brick; L. McD. Hicks, Archt., will supervise construction.

S. C., Heath Springs—Heath Springs School Dist. Trustees, S. C. Bridges, Chmn., will receive bids until May 1 to erect building; plans and specifications at office Wilson & Berryman, Archts., Palmetto Bldg., Columbia, S. C.; also offices Builders Exchanges, Columbia, S. C., and Atlanta, Ga.; Chambers of Commerce, Charlotte and Greensboro, N. C.

S. C., Pendleton—Pendleton School Dist. No. 2 (Sandy Springs and adjacent territory), will erect building; election April 14 on \$17,000 bonds. Address Dist. School Trustees.

S. C., Sumter—School Dist. No. 17 will vote on \$300,000 bonds. Address Dist. School Trustees.

Tenn., Jonesboro—Jonesboro Special School Dist. will vote May 5 on \$50,000 bonds to erect building. Address Dist. School Trustees.

Tenn., Jonesboro—City will vote April 30 on \$25,000 to erect school. Address School Board.

Tex., Brownwood—City plans election either May 7 or 12 on \$60,000 bonds to erect school. Address Board of Education.

Tex., Dallas—City, S. R. Aldredge, Mayor, voted \$8,325,000 bonds including \$1,000,000 for schools. (Lately noted.)

Tex., Fredericksburg—St. Mary's School will erect building; 3 stories; brick; stone trim; Leo, M. J. Deilmann, Archt.; Moeller & Weilbacher, lowest bidder at \$39,000; Braden-Hudson, electrical work; Jud & Ormund, plumbing, all San Antonio. (Lately noted.)

Tex., Houston—City will vote May 7 on \$3,000,000 school bonds; R. B. Cousins, Supt. of Schools.

Tex., Iowa Park—School Board, W. A. Bradford, Supt., will erect schools; \$60,000 bonds voted. (Lately noted.)

Tex., Marshall—City will vote on \$400,000 bonds including \$250,000 for schools. Address The Mayor.

Tex., Murchison—School Board will erect brick high school; \$40,000 bonds voted.

Tex., Wolfe City—City plans vote on \$100,000 school and water bonds. Address The Mayor.

Va., Chuckatuck—Nansemond County School Board, J. B. Eberwine, Chmn., Deans, will receive bids until April 23 to erect high school. (See Va., Whaleyville.)

Va., Cypress—Nansemond County School Board, J. B. Eberwine, Chmn., Deans, will receive bids until April 23 to erect addition to high school. (See Va., Whaleyville.)

Va., Whaleyville—Nansemond County School Board, J. B. Eberwine, Chmn., Deans, will receive bids until April 23 to erect additions to Whaleyville and Cypress high schools; also high school at Chuckatuck; bids as a whole including heating, plumbing and electric wiring; plans at office County Superintendent of Schools, Suffolk.

W. Va., Triadelphia—Triadelphia Dist. School Board will erect, remodel and improve schools; \$105,000 bonds voted.

### Stores.

Ala., Fort Payne—S. B. Slone will erect building on Gault Ave.; \$20,000; 2 stories; brick.

Ala., Montgomery—I. Silver, Birmingham, will remodel building at Dexter Ave. and Perry St.; \$50,000; Harry B. Wheelock, Archt., Birmingham.

Fla., Bradentown—Harris Breeze will erect building on Pine St.; 1 story; 25x55 ft.; brick, hollow tile and stucco.

Fla., Bradentown—J. R. Mickler, Tampa, will erect building on Pine St.; 1 story; 42x78 ft.; brick; hollow tile and stucco.

Fla., Miami—C. J. Martin will erect 2-story and lodge building at N. W. First Pl. and 14th St.; \$10,000.

Fla., Tavares—Chas. W. Clark, St. Louis, will erect business block.

Fla., Wauchula—Marvin Bailey will erect building on Main St.; 2 stories, 20x100 ft.

Fla., Wauchula—R. B. Jones will erect building on Main St.; 2 stories; 40x100 ft.; brick.

Fla., Wauchula—Kilgore Seed Co. will erect 2-story brick building at Main St and 7th Ave.; 62x100 ft.; brick.

La., New Orleans—Krauss Co., Ltd., Iberville St. and New Basin, will receive bids until April 24 to erect 5-story addition; \$150,000; 50x125 ft.; mill construction and brick; plans and specifications at office Favrot & Livaudais, Archts., Hibernia Bank Bldg.

N. C., Greensboro—Jno. L. King will erect 10,000 store and office building; 2 stories; 25x80 ft.; brick.

N. C., Greensboro—J. E. Latham Co. will erect store on E. Market St.; \$25,000; 3 stories; 60x60 ft.; brick; hollow fireproof tile; metal ceilings; hardwood and concrete floors; reinforced concrete foundation; composition roof; ventilators; steel sash and trim; Harry J. Simmons, Archt.; owner builds.

Okla., Oklahoma City—F. A. Gross Construction Co. will erect buildings at 200 and 206 W. 5th St. and 509 and 511 W. Main St.; \$65,000.

Okla., Tulsa—F. C. Giddings will erect business block at 4th and Frankfort Sts.

S. C., Spartanburg—McMillin-Clark Investment Co., C. C. McMillin, Prest., Iman, will erect five 1-story stores at E. Main and N. Converse Sts.; \$100,000; day labor. (See Machinery Wanted-Building Material; Store Fronts; Steel Columns.)

Tenn., Harriman—Jno. A. East, Rockwood, will erect 4 business buildings on Roane St.

Tenn., Knoxville—Central Improvement Co., C. B. Atkin, Prest., will erect 2-story building at Central Ave. and Depot St.; 120x50 ft.; brick.

Tex., Dallas—Jas N. Tardy and Chas. B. Cohen will erect \$30,000 business building at Knox St. and McKinney Ave.; 2 stories; 75x80 ft.; brick.

Tex., Galveston—Jas. A. Hawkins will erect store and number of houses on Boulevard between 13th and 14th Sts. for summer camp; \$50,000.

Tex., Houston—Jno. F. Grant will erect 2-story building at 2317-18 Avenue E.

Tex., Houston—James Furniture Co., Milam St. and Capitol Ave., will remodel building; install elevator, remove partition, etc.; \$10,000.

Tex., New Braunfels—Mrs. Krause will erect store and office building; 2 stories; reinforced concrete and brick; Herbert S. Green, Archt., San Antonio; A. C. Moeller, New Braunfels, is the lowest bidder at \$35,943; Graham & Collins, San Antonio, electrical work; H. Plumeyer, New Braunfels, heating and plumbing. (Lately noted.)

Va., Kenbridge—H. W. Pritchett & Sons will erect business building.

Va., Kenbridge—Dr. L. G. Walker will erect business building.

Va., Kenbridge—Wrenn & Dickerson will erect store.

W. Va., Charleston—M. B. Goldman, Propr., Liberty Clothing Store, Capitol St., will erect 3-story store at Summers and Fifth Sts.; 82x129 ft.; brick; limestone front; Carmichael & Millsbaugh, Archts., Columbus, Ohio.

### Theatres.

Ala., Tuscaloosa—Merchants Bank & Trust Co. will erect building for theater to be leased by South Alabama Enterprises, Inc.; \$45,000; 32x123 ft.; reinforced concrete; concrete floors and foundation; D. O. Whilldin, Archt., Birmingham. (Lately noted.)

### Warehouses.

Fla., Daytona—Malby-Conrad Lumber Co. will erect warehouse on Orange Ave. to replace structure lately noted burned at loss of \$75,000; 2½ stories.

N. C., High Point—R. N. Anderson and H. L. Durepo, Archdale, will erect warehouse and office building at 246½ N. Wrenn St.; 40x60 ft.

N. C., Madison—Farmers Warehouse Co. will enlarge building.

## BUILDING CONTRACTS AWARDED

### Apartment Houses.

Fla., Miami—J. C. Perkins will erect \$50,000 Spanish type apartment house, 285 S. W. 1st St.; 3 stories; 38x100 ft.; Spanish stucco; concrete verandas; roof garden, 38x50 ft.; J. Phillip Turner, Archt.; George Jahn, Contr.

Tenn., Knoxville—W. H. Sterchi, Pres., Citizens Bank & Trust Co., will erect \$75,000 Sterchi Apts., 5th Ave. and King St.; 3 stories and basement; 44 rooms; 12 suites; A. B. Baumann and A. B. Baumann, Jr., Archts.; J. M. Dunn & Son, Contrs. (Previously noted.)

Tex., Dallas—A. W. Wible will erect \$25,000 Spanish type apartment house, Lemon and Wycliffe Aves., Oak Lawn; concrete and brick; plaster and tile interior; fireproof; Spanish tile roof; separate entrances, stairways and service facilities; 4 garages in rear; A. K. Garwick, Contr.

Tex., Houston—S. W. Narregang, 315 West Bldg., will erect \$18,000 brick veneer apartment house; 2 stories; 4 suites; concrete and oak floors; cement foundation; gravel roof; interior tile; L. S. Green, Archt., Stewart Bldg.; I. Fallis, Contr., 1902 McKee St.

W. Va., Fairmont—Dr. John W. and Miss

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Margaret Murphy will erect 2-story apartment house, Maple Ave.; two 5-room and two 4-room suites; storage space for 10 automobiles in basement; A. T. McElfresh, Contr.

### Bank and Office.

Ark., North Little Rock—First National Bank will erect \$20,000 building; 1 story; brick and stone; John P. Almand, Archt.; Geo. W. Donaghey, Contr.; both Little Rock.

Fla., DeLand—First National Bank will erect \$110,000 bank and office building, New York Ave.; 6 stories; brick and stone; elevator; W. J. Carpenter, Archt., St. Petersburg, Fla. and Pittsburgh, Pa.; C. M. Emerson Co., Contr., Brooksville. (Lately noted.)

Ky., Princeton—Farmers National Bank will enlarge building; burglar-proof vault; contract let.

N. C., Asheville—L. B. Jackson & Co. will erect 14-story office building, Pack Square; about \$250,000; 27x61 ft.; steel and hollow fireproof tile; concrete floors; metal ceilings; interior tile; metal doors; ornamental terra cotta; steel sash and trim; steam heat; Ronald Greene, Archt.-Engr.; Z. V. Creasman, Contr.; Otis Elevator Co., 2 elevators; foundation in. (Contract for steel work lately noted let to Asheville Supply & Foundry Co.)

N. C., Charlotte—Anchor Mills Co., C. W. Johnston, Pres., will erect 16-story office building to replace burned Trust Bldg., S. Tryon St.; about \$1,000,000; fireproof; 62x178 ft.; steel frame; marble front; 285 offices; W. L. Stoddart, Archt., 9 E. 40th St., New York; Hunkin Corkey Construction Co., Contr., Cleveland, O.; contract for steel previously let to Virginia Bridge & Iron Co., Roanoke, Va. (Lately noted.)

N. C., Rockingham—Farmers Bank, Leake S. Covington, Cash., will erect 2-story Indiana limestone bank building; total cost \$60,000; 34x103 ft.; marble and cork floors; Benton & Benton, Archts., Wilson; T. C. Thompson Bros., Contrs., Charlotte; Thompson Electric Co., Raleigh, electric wiring; Fred N. Rowe, Bennettsville, S. C., heating and plumbing; York Safe & Lock Co., York, Pa., vault; bids opened for furniture and fixtures. (Lately noted.)

Tenn., Tullahoma—Dr. A. E. Ray let contract to erect office building on Atlantic St.

Tenn., Memphis—Columbian Mutual Life Assurance Society, Geo. W. Clayton, Secy., will erect \$1,000,000 building, Court Ave. and Main St., lately noted; 22 stories; 75x75 ft.; concrete and steel; concrete and hardwood floors; concrete pile foundation; tile and composition roof; hollow fireproof and interior tile; metal ceilings and doors; mail chutes; ornamental terra cotta; wire glass; Boyer & Baum, Archts., Arcade Bldg., St. Louis; Keeley Bros. Construction Co., Contr., 2030 State St., East St. Louis, Ill.; Virginia Bridge & Iron Co., Roanoke, Va., steel frame fabrication and erection; Sode-man Heating Co., heating; Newberry Electric Co., electrical work; both St. Louis; Kincaid Plumbing Co., plumbing; Otis Elevator Co., elevators; both Memphis; Herzog Ornamental Iron Co., Minneapolis, Minn., ornamental bronze and iron; Appalachian Marble Co., Knoxville, Tenn., marble; Raymond Concrete Pile Co., 140 Cedar St., New York, foundation piles. (See Mch. Wanted-Building Material.)

Va., Norfolk — Trust Co. of Norfolk will erect 2-story brick branch bank building, 38th St. and Myers Ave., Lamberts Point; offices on second floor; B. B. Spigel, Archt.; Miller Engineering Co., Contr.

Va., Richmond—Broad Street Bank will erect \$183,000 bank building, Broad and 6th Sts.; 1 story, with construction to per-

mit additional stories later; Bascom J. Rowlett, Archt.; Jas. Fox & Sons, Contrs.; S. H. Guzo, heating; W. B. Catlett Electric Co., electrical work; W. F. Mahoney, plumbing; elevator not let. (Lately noted.)

### Churches.

Miss., Shaw—Baptist Church, Rev. E. V. May, Pastor, will erect \$18,000 building; 3 stories; brick veneer; asphalt shingle roof; wood and concrete floors; wood or metal columns; hot air heat; plans by Baptist Mission Board, Atlanta, Ga.; H. P. Chastang Construction Co., Contrs., Jackson, Miss.; construction to begin May 1.

Miss., Holly Springs—Baptist Church, S. C. Lowry, Secy., Bldg. Comm., will erect \$35,000 building; 3 stories; brick; stone trim; asbestos, slate or tile roof; wood and concrete floors; hot air heat; J. E. Greene, Archt.; Birmingham, Ala.; H. P. Chastang Construction Co., Contrs., Jackson, Miss., construction to begin May 1.

Okla., Tulsa—St. Paul's M. E. Church, W. H. Siders, Chmn. Bldg. Comm., will erect \$60,000 Gothic type building, 15th and Quaker Sts.; brick; 60x103 ft.; 2 stories; concrete, hardwood and edge grain yellow pine floors; concrete foundation; tile roof; hollow fireproof tile; rolling partitions; Courtland Butler, Archt., 8th floor, Kennedy Bldg.; G. D. Morrow & Son, Contr., 607 Kennedy Bldg.; Acme Electric Co., electrical work; Acme Plumbing Co., plumbing; Chas. Casler, 8th floor Kennedy Bldg., brick; footings in. (Lately noted.)

S. C., Charleston — Knox Presbyterian Church, Jos. A. Black, Chmn. Bldg. Comm., will erect \$12,000 to \$15,000 building, King and Sumter Sts.; brick; accommodate 250; 2 steeples, 12x10 ft.; Sunday school extension, 25x35 ft.; 29 stained glass windows; C. P. Pope, Contr.

W. Va., Iaeger—M. E. Church, South, J. M. Wysor, Pastor, will erect \$15,000 building; stone, brick and tile; 45x74 ft.; 2 stories; concrete and oak floors; stone and concrete foundation; built-up truss roof; 8x5x12 hollow fireproof tile; rolling partitions; W. R. Lewis, Archt., Bluefield; Hylton & Johnson, Contrs., Welch; excavation, stone and concrete let to A. B. Pareldo Construction Co., Iaeger; heating, lighting and plumbing not let; electrical work probably let to Mr. Carmell, Kimball; Mr. Wysor desires bids on brick and tile until April 30. (Lately noted.)

### City and County.

Md., Baltimore—Comfort Station—City, Wm. F. Broening, Mayor, will erect \$24,689 comfort station at North East Market, Duncan St., north of McElderry St.; 2 stories and cellar; 40x60 ft.; brick and reinforced concrete for first floor, second wood; reinforced concrete floors; concrete foundation; built-up roof; John Freund, Archt., 1307 St. Paul St.; DeCou & Davis, Contrs., 404 W. Baltimore St.; Hughes Engr. Co., 22nd St., heating and plumbing; Excello Ill. Co., Eutaw St. lighting; Dauplaise, Emerson Tower Bldg., brick; J. L. Gilbert & Bro. Lbr. Co., Garrison Lane and Penna. R. R., millwork. (Lately noted.)

S. C., McCormick—Jail—County will erect \$11,000 jail; 2 stories; first floor for jailer's residence; G. Lloyd Preacher & Co., Archts., Augusta, Ga.; C. W. Cooper, Contr., Atlanta, Ga.

### Dwellings.

D. C., Washington—J. Brayshaw will erect 2 two-story frame dwellings, 3927-29 Keokuk St., N. W.; total \$14,000; W. A. Lovelless & Co., Contrs.

D. C., Washington—H. R. Howenstein will erect 11 two-story brick dwellings, 1616-20 A St., N. W.; total \$55,000; H. R. Howenstein & Co., Contrs.

Fla., Jacksonville—J. K. Attwood will erect \$12,000 residence, Riverside St., near Aberdeen Rd.; 2 stories; brick veneer; also \$2000 two-story frame garage and servants' quarters; Leadlay Ogden, Contr.

Fla., Palm Beach—Arthur D. Claflin, New York, will erect \$60,000 residence, south of El Bravo; 2 stories; hollow tile and stucco; Los Manos tile roof; stone fireplace; nursery; 4 bathrooms; patio 45x23 ft.; garage with 6 bedrooms above, connected by bridge to main building; Addison Mizner, Archt.; Benjamin F. Hoffman, Contr.; both Palm Beach.

Fla., Tavares—J. M. Gillespie, Arlington, N. J., let contract to erect residence.

Fla., West Palm Beach—N. A. Campbell will erect \$10,000 residence and garage on Lake Worth; 54x30 ft. and 12x20 ft.; tile; Willson Co., Contr.

Md., Baltimore—Herman H. Duker, Albe-marle, Fleet and President Sts., will not erect dwellings and garage at N. E. cor. Chelsea Terrace and Mondawmin Ave., as lately reported.

N. C., Granite Falls—Granite Cordage Co. will erect 2 five-room, 4 three-room and 14 four-room cottages; brick foundations; asphalt shingle roofs; L. R. Rink, Engr.; Elliott Building Co., Contr., Hickory. (Lately noted.)

N. C., Lenoir—Nelson Cotton Mill Co. will erect 8 four-room, 8 three-room and 4 five-room cottages and 75x100-ft. warehouse in connection with mill development; Elliott Building Co., Contr., Hickory. (Lately noted.)

N. C., Pinehurst—Thomas Hogsett, Cleveland, O., will erect \$16,000 residence; H. T. Betterly, Contr., Carthage.

N. C., Rutherfordton—M. L. Edwards let contract to erect 3 bungalows.

N. C., Winston-Salem—Harry F. Althison will erect \$10,000 residence, Cloverdale St.; 2 stories; 46x44 ft.; frame; concrete block foundation; Dutch Colonial type roof; W. H. Fetter & Co., Contrs., Wachovia Bank Bldg.; Cude Heating Co., Rudy hot-air heat; C. G. Pritchard Electric Co., electric wiring; fixtures from Clinard Electric Co.; L. B. Brickenstein, plumbing. (Lately noted.)

S. C., Columbia—Martelle Mills will erect 5 tenant houses; Loyal-Covin Construction Co., Contr.

W. Va., Welch—E. W. Cullen, J. S. Royer and J. W. Price, Greater Welch Land Co., will erect 4 frame dwellings, Court St., near tunnel; 2 stories; 6 rooms and bath; oak floors; brick foundations; asbestos roofs; \$3000 each; Johnson & Hylton, Engrs.; Chas. H. Smithey, Contr.; E. W. Cullen, J. S. Royer and J. H. Barker will also erect 2 frame dwellings, Slant and Hobart Sts.; \$3000 each; 8 rooms; oak floors; stone foundations; asbestos roofs; 2 stories; G. C. Johnson, Contr.; all heating and lighting let. (Lately noted.)

W. Va., Welch—Sam Polon let contract for Houston interests to G. Stowe to erect 10 brick dwellings; 2 stories; Mr. Polon will erect 2 dwellings on Ash St. and 1 on Court St., Woodmont section.

W. Va., Welch—John W. Blakely and Eddie O'Toole will erect two 7-room brick dwellings, south side Maple Ave., west of school grounds; \$11,000 each; Charles Smith-e, Contr.

### Hospitals Sanitariums, Etc.

Ala., Birmingham—Children's Hospital Assn., Dr. Alfred A. Walker, Chmn. Bldg. Comm., will erect first wing of hospital, 17th Ave., South, and 30th St.; \$75,000; 2 stories and basement; 50x110 ft.; 50 beds; fireproof;

brick and reinforced concrete; Miller & Martin, Archts.; Earl Cline, Contr.

Md., Sykesville—Springfield State Hospital will erect 4 buildings for epileptic colony; brick and concrete; about 100x40 ft. each; 2 stories; terra cotta and concrete floors; slate roofs; concrete and brick foundations; hollow fireproof and interior tile; wire glass; total \$200,000; Henry P. Hopkins, Archt., 347 N. Charles St.; Northeastern Construction Co., Contr., Lexington Bldg.; Heat and Power Corp., 30 Light St., heating; H. E. Crook Co., Inc., 28 Light St., electrical work; Harry L. Black & Son, 25 Clay St., plumbing; all Baltimore. (Lately noted.)

Tenn., Harlingen—Baptist Church will erect \$50,000 hospital; additional units later; Edwin & Mulhausen, Archts.; W. T. Liston & Son, Contrs. (Previously noted.)

### Hotels.

Miss., Tutwiler—Tutwiler Hotel Co., Inc., M. Herman, Prest., will erect \$50,000 hotel; 150x150 ft.; 2 stories; brick and stone; 41 guest rooms and 21 baths; J. Frazer Smith, Archt., Memphis, Tenn.; B. V. Mathis, Contr., Clarksdale, Miss.

Va., Lynchburg—Virginian Hotel, Inc., will erect 1-story addition of 34 rooms with baths; \$100,000; fireproof roof; metal, lumber and concrete floors; passenger elevator; Stanhope S. Johnson, Archt., People's Bank Bldg.; Jno. P. Pettyjohn & Co., Contrs.

Va., Norfolk—Heart O Ghent, Inc., K. P. Webb, Prest.; J. N. Webb, V.-P.; Blaine Graham, Secy-Treas.; will erect \$125,000 hotel; 4 stories; 60x105 ft.; brick; B. B. Spiegel, Archt.; Blain Graham Constr. Co., Contr.

Va., Smithfield—Arlington Hotel will erect addition; 21 rooms; frame; steam heat; Nussman & Cox, Contrs., Suffolk.

### Miscellaneous.

N. C., Hickory—Clubhouse—Hickory Country Club will erect \$20,000 building; L. L. Moss, Contr.

S. C., Greenville—Community Building—Union Bleachery will erect community building; \$27,000; brick foundation; frame; Rudolph E. Lee, Archt., Clemson College, S. C.; C. M. Guest, Contr., Anderson; L. L. Barr Co., Greenville, heating and lighting. (Lately noted.)

W. Va., Charleston—Market—Charleston Market Co., inceptd. by H. A. Robson, Huntington, Prest.; A. C. Lawrence, Charleston, V.-P.; E. G. Smith, Charleston, Treas.; Berkeley Miner, Charleston, Secy.; will erect \$375,000 market on Dickinson St.; 4 stories; 60x330 ft.; fireproof; hardwood and metal lumber floors; concrete foundation; built-up roof; hollow fireproof tile; interior tile; plaster board; mail chutes; ornamental terra cotta; steel sash and trim; wire glass; ventilators; vault lights; 40-ton refrigeration plant; Wysong & Jones, Archts.; E. S. Winchell, Contr.

### Schools.

Ala., Lanett—School Board will erect \$100,000 building; 36 classrooms; fireproof; West Point Iron Works, Contr., West Point, Ga.

Fla., Key West—Monroe County Board of Public Instruction, Virgil Lowe, Supt., will erect school for negroes; \$16,449; Johnson & Dongo, Probable Contrs. (Lately noted.)

Fla., Miami—County Board of Public Instruction will erect Riverside Park Junior High School; \$150,000; North-Italian type; 3 stories; fireproof; concrete and stucco; terra cotta trim; H. Hastings Mundy, Archt.; Geo. Jahn, Probable Contr.

Fla., Pine Level—DeSoto County School Board, P. G. Shaver, Supt., Arcadia, will erect building; brick; Tritt & Taylor, Contrs.

Ga., Atlanta—Board of Education, J. N. Landers, City Purchasing Agt., will erect Senior High School for Boys; \$461,000; Hentz, Reid & Adler, Archts.; Robert & Co., Asso., Archts.; A. Ten Eyck Brown, Supervising Archt., Forsyth Bldg.; Southern Ferro Concrete Co., Contr.; Jennings-Gresbam Co., heating; Walker Electric & Plumbing Co., electrical work; Farrell Heating and Plumbing Co., plumbing Co., plumbing. (Lately noted.)

Ky., Ashland—Board of Education, P. D. Wells, Secy., will erect junior high school; \$95,834; 2 stories; 74.4x68.5 ft.; brick, reinforced concrete and hollow tile; oak, concrete, steel and tile floors; metal lumber and concrete roof; concrete foundation; steel sash; metal doors; interior tile; warm air fan blast system of heating and ventilating; Tyson & Foster, Archts., Grand Theater Bldg.; Payne Construction Co., Contr.; Union Plumbing Co., plumbing, all Ashland; General Fireproofing Co., Youngstown, Ohio, reinforced steel, steel tile and metal lath; Jas. J. Weller & Sons, Huntington, W. Va., structural steel, architectural iron, steel stairs, flag pole, vent gratings, etc. (Lately noted.)

La., Hammond—Tangipahoa Parish School Board, W. A. Sisemore, Supt., will erect \$100,000 building; 2 stories; 75x225 ft.; 20 classrooms and auditorium to seat 650; composition roof; steel sash; brick and mill construction; Sam Stone, Jr., Archt., 714 Union St., New Orleans; Albert Tolle, Contr. (Lately noted.)

Md., Baltimore—Board of Awards, Mayor Wm. F. Broening, Prest., will erect senior-junior high school for negroes; 300x270 ft.; 3 stories; reinforced concrete, brick and stone; slag roof; wood, mastic, cork and tile floors; concrete foundation; hollow fireproof tile; steel sash and trim; wire glass; metal doors; vaults; steam heat; elevator; Owens & Sisco, Archts., Continental Bldg.; Chas. F. Reeder, Eng., 916 N. Charles St.; J. Henry Miller, Inc., Eutaw and Franklin Sts., contr., at \$1,149,000. (Lately noted.)

Miss., Benoit—School Board will erect \$22,000 building; Claude H. Lindsley, Archt., Kress Bldg., Jackson; S. M. Leard, Contr., Rosedale; Davidson Bros., Greenville, plumbing and heating, \$3750. (Lately noted.)

Miss., Gulfport—School Board, Frank Brown, Supt., will erect high school; \$175,000; 2 stories; 201x165.6 ft.; brick, hollow tile and structural steel; composition roof; concrete foundation; hardwood floors; interior tile; vaults; ventilators; ornamental terra cotta; steel sash and trim; N. W. Overstreet, Archt., Jackson, Miss.; Algernon Blair, Contr., Montgomery, Ala.; Enoch Mfg. Co., Jackson, millwork; Decatur Cornice & Roofing Co., Albany, Ala., steel. (Lately noted.)

N. C., East Bend—School Board will erect building; 10 classrooms and auditorium; brick; J. S. Day, Contr., Winston-Salem.

N. C., Swannanoa—Buncombe County Bd. of Education, Frank L. Wells, Supt., will erect high school; 11 rooms and auditorium; Frank B. Simpson, Archt., Raleigh; Z. V. Creasman & Co., Contrs., Asheville; Sluder Bros., plumbing. (Lately noted.)

S. C., Charleston—City School Board will erect annex to Burke Industrial School; Simons & Laphan, Archts.; T. W. Worth, contr., at \$13,685; improvements to Memminger School; Benson & Barbot, Archts.; Charleston Engineering & Contracting Co.,

contr. at \$7437; Crafts School; D. B. Hyer, Archt.; Charleston Engineering & Contracting Co., contr. at \$7237; fire escapes in Mitchell School; L. Y. Dawson, Archt.; C. H. Henrickson, contr. at \$6230. (Lately noted.)

Tenn., McKenzie—Bethel College will erect administration building; \$60,000; 3 stories; 120x84 ft.; joist floor construction; composition roof; interior tile; concrete floors; ventilators; concrete foundation; Roscoe H. Weltecke, Contr., Sikeston, Mo.; J. W. Hull Plumbing & Heating Co., Inc., Memphis, Tenn., heating and plumbing; Illmo Electric Co., Illmo, Mo., electrical work.

Tex., Ennis—Board of Education, W. O'Banion, Supt., will erect negro school; \$17,700; 1 story; 9 rooms and auditorium; brick; Hix McCannless, Archt.; Shepherd Bros. Co., Contr., Greenville. (Lately noted.)

Tex., San Benito—School Board will erect \$40,000 building; Parker Construction Co., Contr., Houston.

Va., Fredericksburg—Betty Lewis Bldg. Corp., will erect dormitory for State Normal School; \$40,000; 100x60 ft.; 2 stories and basement; brick; concrete foundation; wood joist floor construction; built up asbestos roof; Philip N. Stern, Archt., Fredericksburg; Meredith Construction Co., Contr., Norfolk; Geo. W. Hofer, plumbing and low pressure steam heating plant; Owens & Hancock, electric lighting, all Fredericksburg. (Lately noted.)

W. Va., Great Cacapon—School Board will erect addition and remodel grade and high school; \$24,612; R. Leslie Hunter, Contr., Berkeley Springs.

### Stores.

Fla., Jacksonville—Fifty Associates, Courtland Buckman, Pres., will erect \$40,000 building on Adams St. for Arnold-Edwards Music Co.; 34½x105 ft.; 3 stories; plate glass front; steam heat; elevator service; Marsh & Saxelbye, Archts.; O. P. Woodcock, Contr.

Fla., Jacksonville—W. M. Bostwick, Jr., will erect building on 8th St. between Market and Liberty Sts.; 1 story; brick and tile; \$10,500; also similar building on Main St. between Fifth and Sixth Sts.; G. S. Warren, Contr.

Ga., Augusta—Schneider & Tunkle will remodel store at 1016 Broad St.; \$12,720; brick; J. B. Mobley, Contr.

La., New Orleans—Arthur Bosio will erect 2-story store and residence at Dumaine and Olga Sts.; Ullrich Glass Co., Contr.

La., New Orleans—Sam Fertel will erect store and apartment building on S. Rampart St.; \$16,533; 2 stories; brick; Wels & Dreyfous, Archts., Maison Blanche Bldg.; Ullrich Glass Co., Contr. (Lately noted.)

Mo., Jefferson City—Lafe and James Bacon will erect building at 118 E. High St.; 2 stories; 26x100 ft.; Kawneer front; brick; plate glass; tile entrance E. B. Kenney, Archt.; Chas. Clark, Contr.

N. C., Winston-Salem—Efird Department Store, 4th and Trade Sts., will erect additional story to building; 50x100 ft.; brick; passenger elevator; W. C. Northup, Archt.; Frank Blum & Co., Contrs.

Tenn., Memphis—Al Goldfarb will erect \$30,000 building at 41-43 W. Union Ave.; 3 stories; concrete and brick; steel sash; E. L. Harrison, Archt.-Engr.; S. Malkin Co., Contr.; Lew Tisdale & Co., plumbing; Fowler Electric Co., wiring; Fischer Heating Co., heating. (Lately noted.)

Tenn., Memphis—R. T. Clarkson Co. will erect \$60,000 building; 3 stories; fireproof; brick and stone; electric elevator; E. L.

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Tenn., Ennis—School Board, J. P. Boren, Prest., will erect building; 1 story; 9 rooms and auditorium; brick; \$17,700; Shepherd Bros. Co., Contr., Greenville, Tex. (Lately noted.)

Tenn., Oak Cliff (Sta. A., Dallas)—D. B. Blaine will erect \$50,000 store and office building at Jefferson Ave. and Zang's Blvd.; 2 stories; 125x75 ft.; B. A. Parrish, Archt.-Contr.

### Warehouses.

Md., Baltimore—Edw. C. Heinz, 1908 Light St., will erect \$12,000 storage building, 1910-14 Light St.; 42.4x69.10 ft.; 2 stories; brick; E. Eyring & Sons, Contrs., 3501 Falt Ave. (Lately noted.)

N. C., Lenoir—Nelson Cotton Mill Co. will erect 75x100-ft. warehouse; Elliott Building Co., Contr., Hickory. (See Dwellings.)

Tenn., Knoxville—Dooley & Gillespie Co

will erect \$20,000 warehouse, 417-19 Gay St.; 1 story and basement; J. F. Larue, Contr.

Tenn., Knoxville—Knoxville Fireproof Storage Co. will erect warehouse, Randolph St. and Southern Ry.; \$200,000; 6 stories; 150x150 ft.; fireproof; reinforced concrete, steel, brick and hollow tile; slab roof; steel window frames and doors; sprinkler system; loading platform 150 ft. long; Moores & Dunford, Archts., 32 S. Dearborn St., Chicago, Ill.; V. L. Nicholson, Contr., Knoxville. (Lately noted.)

## MACHINERY, PROPOSALS AND SUPPLIES WANTED

**Angle Iron.**—Randolph K. Hock, Elkins, W. Va.—Carload lots of used angle irons, boilers, etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until April 27 to furnish 10 hot-water boilers; 24 straight and angle, hot-water thermometers; 50 shaker grate bars; 50 short grate bars; delivery Quantico, Va.; Sch. 424.

**Bank Fixtures.**—Paul G. Silber & Co., San Antonio, Tex.—Bank fixtures for building at Cameron, Tex.

**Bank Fixtures.**—Paul G. Silber & Co., San Antonio, Tex.—Bank fixtures for building at Winters, Tex.

**Bathing Pool Equipment.**—C. W. Elrod, Box 861, Houston, Tex.—Bathing pool equipment for amusement park.

**Beds (Hospital).**—Dr. E. S. Smith, 106 Vine St., Macon, Mo.—Hospital Beds. (See Hospital Equipment.)

**Boiler.**—Duncan Machinery Co. (Mchy. Dealers), Box 265, Knoxville, Tenn.—100 H. P. Scotch Marine type or economic used boiler, with 80 to 100 H. P. Engine; prefer Leffel boiler.

**Boiler.**—Duncan Machinery Co. (Mchy. Dealers), Box 265, Knoxville, Tenn.—Dealers prices on new or second-hand 100 H. P., 100 lb. working pressure, Scotch Marine boiler with fixtures complete.

**Boilers.**—Hackley Morrison Co., Inc. (Mchy. Dealers), 1708 Lewis St., Richmond, Va.—72-in. x 18 ft. and 66-in. x 18 ft. boilers, high pressure; second hand; one 80 H. P. horizontal boiler, 125 lbs. steam pressure on skids; to pass Pennsylvania specifications.

**Boilers.**—Machinery Clearing House, Indianapolis, Ind.—Three 150 H. P., H. R. T. boilers, ASME code, 125 to 150 pressure; two 100 H. P., ASME code 100 lbs. pressure and tubetwo or three Stirling type water tube boilers for a battery of 1000 H. P.

**Boilers.**—W. N. Poindexter, Jr., Gen. Mgr., Walkertown Chair Co., Walkertown, N. C.—Second-hand boilers.

**Boiling Pans.**—See Cane Syrup Plant Equipment.

**Brake (Tinnars).**—Gullis & Davidson, 201 N. Main St., Wichita, Kan.—Second-hand tinnars brake.

**Bridge Construction.**—State Road Dept., H. B. Phillips, Chmn., Tallahassee, Fla.—Bids until April 20 to construct, timber bridge over Pope's Lake, being West Approach to Victory Bridge, Jackson County, Proj. 568; plans, etc. from Div. Engrs.; W. F. Cocke, State Highway Engr.

**Bridge Construction.**—Greenbrier County Clk., Lewisburg, W. Va.—Bids until May 1 to build concrete through glider bridge, of three 33-ft. spans across Muddy Creek at Palestine; plans, etc., from L. Handley, County Engr.

**Bridge Construction.**—P. H. Virden, City Clk., Canton, Miss.—Bids until May 1 to construct bridge in city; 122 cu. yds. con-

crete; 14,500 lbs. steel reinforcement; plans, etc. on file.

**Bucket (Orange Peel).**—D. C. Elphinstone (Mchy. Dealers), 408 Continental Bldg., Baltimore, Md.—One ½-yd. used orange-peel bucket, state condition, location and price for resale.

**Building Material.**—Dr. F. P. Tucker, Milton, N. C.—Building material, including dressed lumber, siding, ceiling, roofing, framing, doors, windows, etc., for 6-room bungalow.

**Building Material.**—Keeley Bros. Construction Co., East St. Louis, Ill.—All kinds of building material for 22-story office building, Memphis, Tenn.; 75x75 ft.

**Building Materials.**—McMillin-Clark Investment Co., C. C. McMillin, Pres., Inman, S. C.—Building materials including lime, cement, brick, hollow tile, steel columns, plate glass store front, etc., for five one-story store buildings at Spartanburg, S. C.

**Cabinets (Metal, Medicine).**—Virginia Building Material Co., Inc., 810 E. Cary St., Richmond, Va.—Metal Medicine cabinets, suitable for the apartment building trade.

**Candy.**—C. W. Elrod, Box 861, Houston, Tex.—Candy for amusement park.

**Cane Syrup Plant Equipment.**—McComb Pure Cane Syrup Co., Xavier A. Kramer, Mgr., McComb, Miss.—Cane grinding machinery, boiling pans, canning machinery, labeling machinery.

**Cane Grinding Machinery.**—See Cane Syrup Plant Equipment.

**Canning Equipment.**—Claude L. Watson, Box 447, Webb City, Mo.—Steam pressure canning equipment, can sealers, etc.

**Canning Machinery.**—See Cane Syrup Plant Machinery.

**Cans (Tin).**—W. C. Nowlin, 210 Central Arcade, Miami, Fla.—To correspond with mfrs. of tin cans.

**Carbon Black Plant Equipment.**—Bert Bros., Mexia, Texas—Carbon black plant equipment for plant at Breckenridge, Texas.

**Cars (Dump).**—R. P. Johnson (Mchy. Dealers), Wytheville, Va.—36-in. gauge, 2 to 4 yd. capacity, two-way dump cars; Western pattern preferred; dealers prices; second-hand.

**Casket Making Equipment.**—G. R. Smith, agent M. & M. Ry., Meridian, Miss.—Data on the mfr. of coffins and caskets, material, equipment, etc.

**Cereal Mills, etc.**—Claude L. Watson, Box 447, Webb City, Mo.—Cereal mills and grain cleaning equipment.

**Circular Saw Mill, etc.**—Beam Lumber Co., J. A. Rudisill, Treas., Lugoff, S. C.—Large size circular mill, planer, rip and resaw; immediate delivery; will probably purchase band saw mill later.

**Coal.**—Dist. Engr., Box 1017, Mississippi River Dredging Dist., U. S. Dredge Depot, opposite Memphis, Tenn.—Bids until April

26 to furnish and deliver 5000 tons of coal in barges.

**Compressor (Ammonia).**—Culpeper Creamery, Inc., Geo. M. Shelor, Secy., Culpeper, Va.—Second-hand 4 or 5-ton ammonia compressor, condenser, brine cooler, ammonia valves, etc.

**Conveyors (Portable), etc.**—Brown—Harry Co. (Mchy. Dealers), Gastonia, N. C.—Catalogs and prices on portable conveyors and unloaders, both gravity and power.

**Cots.**—Randolph K. Hock, Elkins, W. Va.—Carload lots of used cots.

**Crusher (Roll).**—Chas. Spindler Estate, Kingwood, W. Va.—Prices on small capacity roll crusher for crushing cinders; new or second-hand.

**Deep Well Supplies.**—A. Murrison, Dorchester, Texas—Deep well supplies, casing, tanks, air jammers.

**Dispensing (Orangeade) Fountain.**—H. J. Rodrigues, 448 Convention St., Baton Rouge, La.—Equipment for retailing fresh fruit drinks, especially orangeade.

**Electric Lamps.**—C. W. Elrod, Box 681, Houston, Tex.—Electric lamps for amusement park.

**Electric Power Plant, etc.**—Board of Electric Light Trustees, Muscatine, Iowa.—Bids until April 25 to construct municipal electric power plant and distribution system; Arthur Mullergreen, Const. Engr., 555 Gates Bldg., Kansas City, Mo.; B. C. Benham, Secy. of Board; changed date from April 18.

**Electrical Wiring.**—Paul G. Silber & Co., San Antonio, Tex.—Electrical wiring for bank building at Cameron, Tex.

**Electrical Wiring.**—Paul G. Silber & Co., San Antonio, Tex.—Electrical wiring for bank building at Winters, Tex.

**Engine.**—R. P. Johnson (Mchy. Dealers), Wytheville, Va.—Second-hand cylinder traction, 20 H. P. engine, Frick preferred; dealers prices.

**Engine.**—Hackley Morrison Co., Inc. (Mchy. Dealers), 1708 Lewis St., Richmond, Va.—One used left hand heavy duty Corliss engine 26x60 or 30x60 with balance fly wheel, good condition.

**Engine.**—Dawson Cotton Oil Co., Dawson Ga.—250 H. P. Corliss engine; state price, condition, size, make and number of years operated.

**Engine (Kerosene).**—A. C. Love Co., Huntington, W. Va.—50 H. P. single cylinder kerosene engine, second-hand.

**Engines.**—W. N. Poindexter, Jr., Mgr., Walkertown Chair Co., Walkertown, N. C.—Second-hand engines.

**Fencing.**—C. W. Elrod, Box 861, Houston, Tex.—Fencing, gates, etc., for amusement park.

**Fire Escapes.**—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until May 9 for fire escapes at the U. S. Marine Hospital, Louisville, Ky.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

**Fly Screens.**—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until May 9 to furnish and install fly screens in U. S. postoffice at Spanish Fork, Utah.

**Furniture.**—Dr. E. S. Smith, 106 Vine St., Macon, Mo.—Hospital room furniture. (See Hospital Equipment.)

**Gap Riveter.**—Alfred Box & Co., Inc., Philadelphia, Pa.—36-in. gap riveter, to drive 5/8-in. rivets.

**Garment Manufacturing Machinery.**—Randolph K. Hock, Elkins, W. Va.—Data and prices on mchy. for making men's shirts, overalls and children's dresses.

**Gates (Steel).**—U. S. Engr. Office, Nashville, Tenn.—Bids until April 25 for steel gates for Lock 8, Cumberland river.

**Generator Unit.**—Hackley Morrison Co., Inc. (Mchy. Dealers), 1708 Lewis St., Richmond, Va.—100 K. W. direct connected generator unit, 3 phase, 60 cycle, 600 volts.

**Gin Supplies.**—A. Murrison, Dorchester, Texas—Gin repairs and supplies for plant with daily capacity 40 bales.

**Golf Club Machinery.**—M. P. Burt Co., Industrial Engrs., Falls Bldg., Memphis, Tenn.—Mchy. for mfr. of golf clubs.

**Hardware, etc.**—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until April 25 to furnish 127,500 lbs. common wire, headed and wire finishing nails; 800 ft. of light, single and double ply leather belting; 300 casement window fasteners; 800 cast iron, rounded ends, loop eyes sash weights; delivery Quantico, Va. Sch. 414.

**Heating Apparatus, etc.**—Board of Awards, Richard Gwinn, Register, City Hall, Baltimore, Md.—Bids until April 25 for heating apparatus, also alteration to building and plumbing system in school No. 45, Greenmount Ave. and Eager St.; J. F. Crowther, Inspector of Bldgs.

**Heating Apparatus.**—J. S. Wilson, Bailey, N. C.—Heating apparatus that uses crude or kerosene fuel.

**Heating Plant.**—Paul G. Silber & Co., San Antonio, Tex.—Heating plant for 1-story bank building, 33x75 ft., at Cameron, Tex.

**Heating Plant.**—Paul G. Silber & Co., San Antonio, Tex.—Heating plant for 2-story bank building, 56x88 ft., at Winters, Tex.

**Hospital Equipment.**—Dr. E. S. Smith, 106 Vine St., Macon, Mo.—Glass cubicles for infants beds, hospital beds and room furniture.

**Hot Room (Candy).**—S. H. Hubbard, 234 E. 11th St., Chattanooga, Tenn.—Hot room for drying candies and heating starch.

**Incubator, etc.**—H. P. Carson, Kimesville, N. C.—To correspond with mfrs. of incubators and poultry supplies.

**Incinerator.**—City of El Dorado, Ark., C. P. McHenry, Mayor—Specifications and proposals for an incinerator plant, daily capacity 10 to 15 tons.

**Labeling Machinery.**—See Cane Syrup Plant Equipment.

**Lathe.**—Hackley Morrison Co., Inc. (Mchy. Dealers), 1708 Lewis St., Richmond, Va.—Engine lathe with swing 18-in. over ways and which would take 6 ft. 10-in. between centers.

**Lathe.**—Duncan Machinery Co. (Mchy. Dealers) Box 265, Knoxville, Tenn.—Dealers prices on 14-in. lathe with taper attachment, quote on 14-in. swing beds or between centers from the shortest on up to the large ones.

**Lathe.**—Pennsylvania Equipment Co., Norwood Station, Pa.—Second-hand 16 or 18-in. Holton spindle engine lathe with taper attachment bed long enough for a piece 5 to 7

ft. long, good face plate and Universal four-jawed chuck.

**Lighting System.**—J. A. Hockaday, Angier, N. C.—Agency for cheap home light for farm.

**Lumber.**—Dr. F. P. Tucker, Milton, N. C.—See Building Material.

**Machine Shop Equipment.**—Orlando Mfg. Co., Box 1256, Orlando, Fla.—Machine shop equipment including lathes, drill presses, hack saws, punch presses, planer, miller and motors for each machine in size from 1/4, 1/2, 1, 2, 3, and 5 H. P.; bids open; immediate delivery.

**Metal Working.**—A. B. Odeneal, 108 Plant Ave., Tampa, Fla.—To contract for mfr. of metal orange used as an automobile ornament screwing into radiator cap; could use several thousand.

**Millwork.**—Dr. F. P. Tucker, Milton, N. C.—See Building Material.

**Mining Machinery.**—Pool Point Coal Corp., Praise, Ky.—One Jeffery machine for 150-ton capacity coal mine.

**Miscellaneous Supplies.**—Panama Canal, A. L. Flint, General Purchasing Office, Washington, D. C.—Bids until April 23 to furnish metal valves; glass; special bronze; steel rivets; steel snatch blocks; electric light bulbs; litharge; and rod-cup grease. Blank forms and information (Circular 2320) on application to offices of Panama Canal; Asst. Purchasing Agts. at Fort Mason, San Francisco, Cal.

**Miscellaneous Supplies.**—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until April 20 to furnish steel; steel car wheel tires; power cable; safety fuse; iron or steel pipe; leather belting; red and white lead; Southern yellow pine or Douglass fir box siding. Blank forms and information (Circular 1524) no application to offices of Panama Canal; Asst. Purchasing Agts. at Fort Mason, San Francisco.

**Motor.**—Duncan Machinery Co. (Mchy. Dealers), Box 265, Knoxville, Tenn.—100 H. P., A. C. 3 phase, 60 cycle, 220 volt motor; new or used.

**Motor.**—Pool Point Coal Corp., Praise, Ky.—Motor for 150-ton capacity coal mine.

**Motors.**—Orlando Mfg. Co., Box 1256, Orlando, Fla.—Number of 1/4, 1/2, 1, 2, 3, and 5 H. P. motors for machine shop; also wish state agency on line of motors for state of Florida.

**Motors.**—C. W. Elrod, Box 861, Houston, Tex.—5 and 10 H. P. 3 phase, 60 cycle motors, 220-110 A. C.

**Nickle Plating.**—A. V. Cronin, Box 412, Palm Beach, Fla.—To correspond with mfrs. of nickle plating outfits.

**Oil Burner, etc.**—Orlando Mfg. Co., Box 1256, Orlando, Fla.—Oil or distillate burner to use in some of our products.

**Oils, Greases, etc.**—Richmond County Commrs., Augusta, Ga.—Bids until May 1 to furnish for the year beginning May 1st, heavy tractor, heavy duty truck, medium motor and touring car oils; cup greases; gear compound and transmission oils; H. A. Norrell, County Clk.

**Paving.**—H. T. Davis, Director of Finance, St. Petersburg, Fla.—Bids until May 15 to lay 468,000 sq. yds. No. 1 brick pavements, 37,000 sq. yds. No. 2 brick pavements, or 466,000 sq. yds. asphalt block, asphaltic concrete, sheet asphalt, or Willite Process pavements; also 39,000 sq. yds. No. 1 brick pavements with about 357,000 lin. ft. granite or concrete curbing.

**Paving.**—A. V. West, Mayor, Mount Airy, N. C.—Bids until April 24 to lay hard sur-

face, concrete streets on following projects: 1—Bannertown Hill, from present pavement to Highway Bridge; 2—East Oak St., from Main St. to intersection with State Highway; 3—West Oak St. from Mason to Willow; 4—Willow St. from Raleigh Ave. to its intersection with Franklin St.; 5—Raleigh Ave. from intersection of Main St. to intersection of Willow; 6—Needmore St. from present pavement to Willow St.; plans, etc. from I. W. Barber, Engr.

**Paving.**—J. R. Gamble, Mayor, Lincolnton, N. C.—Bids until April 24 for street improvements; 30,000 sq. yds. sheet asphalt or other pavement, on concrete foundation; 13,000 lin. ft. combined concrete gutter, storm drains, etc., and 3 mi. concrete sidewalks; plans, etc. from Sheldon M. Roper, B. S., Engr., Lincolnton.

**Paving.**—Board of Awards, Wm. F. Broening, Prest., Baltimore, Md.—Bids until Apr. 25 to grade and pave with cement concrete alleys in Cont. Nos. 101 and 102; also to grade and pave with cement concrete footways in Cont. Nos. 51, 52, 53 and 61; plans, etc., on file; A. E. Christliff, Ch. Engr.

**Paving.**—Dan T. Cowart, Mayor, Waycross, Ga.—Bids opened April 17 to improve Tebeau St. from Albany Ave. to State St. and Oak St. from Tebeau to A. B. & A. R. R.; 6500 sq. yds. clay gravel pavement; 5000 lin. ft. concrete curb and gutter; plans, etc. from W. E. Lee, Clk.

**Paving.**—Walter H. Taylor, 3rd, Director of Public Works, Norfolk, Va.—Bids until April 30 to pave certain streets as follows: Reset 1630 lin. ft. granite curb; 7665 ft. granite curb; 18,400 lin. ft. combined concrete curb and gutter; 83,999 sq. yds. grade, and concrete base; asphalt surface, including binder and top; 1220 sq. yds. concrete paving; plans, etc. on file.

**Paving Materials.**—H. T. Davis, Director of Finance, St. Petersburg, Fla.—Bids until May 15 to purchase No. 1 brick for 468,000 sq. yds. pavement, No. 2 brick for 37,000 sq. yds. pavement, or to furnish asphalt block for 466,000 sq. yds. pavements, and No. 1 brick for 39,000 sq. yds. pavements, and 357,000 lin. ft. concrete or granite curbing and headers, and 1,000,000 lbs. asphalt filler.

**Paving and Sewer Construction.**—Bertram Barnett, Mayor, Arcadia, La. — Bids until May 7 to pave with reinforced concrete portion of Railroad Ave. North, Hazel, Myrtle and Maple Sts.; 10,385 sq. yds. 6 in. reinforced concrete; 3,315 lin. ft. plain curb; 9 manholes, complete, 5 catch basins and castings; plans, etc., from Town Clk., or Jas. W. Billingsley, Const. Engr., 700 Interstate Bank Bldg., New Orleans, La.; Jas. C. Nisbet, Engr., in charge.

**Peanut Butter Machinery, etc.**—Claude L. Watson, Box 447, Webb City, Mo.—Peanut butter machinery, grinders, roasters, etc.

**Piling.**—Port Commrs., Suite 200, New Court Bldg., New Orleans, La.—Bids opened April 19 to furnish approx. 520,000 ft. B. M. untreated sheet piling.

**Pipe.**—Glenwild Plantation, Grenada, Miss.—75,000 ft. of 4-in., 7000 ft. of 5-in., 8000 ft. of 6-in., and 3000 ft. of 8-in. pipe; all to be hard burned porous drain tile; prices f. o. b. Grenada; Paul Gaines, Engr., 205 Falls Bldg., Memphis, Tenn.

**Pipe (Cast Iron and Terra Cotta).**—Hackley Morrison Co., Inc. (Mchy. Dealers), 1708 Lewis St., Richmond, Va.—300 ft. of 30-in. cast iron pipe in 10 ft. sections and 150 ft. of 24-in. terra cotta pipe.

**Pipe (Galvanized).**—C. W. Elrod, Box 861, Houston, Tex.—Galvanized pipe in all sizes used in construction of amusement park.

**Plumbing.**—Paul G. Silber & Co., San Antonio, Tex.—Plumbing for bank building at Cameron, Tex.

**Plumbing.**—Paul G. Silber & Co., San Antonio, Tex.—Plumbing for bank building at Winters, Tex.

**Plumbing Equipment.**—Dr. E. S. Smith, 106 Vine St., Macon, Mo.—Plumbing equipment for \$40,000 hospital.

**Posts (Tubular).**—Randolph K. Hock, Elkins, W. Va.—Carload lots of used tubular posts.

**Press (Wheel, Hydraulic).**—A. C. Love Co., Huntington, W. Va. — 200-ton hydraulic wheel press for standard gauge equipment; second-hand.

**Pulleys, etc.**—W. N. Poindexter, Jr., Gen. Mgr., Walkertown Chair Co., Walkertown, N. C.—Second-hand pulleys, shafting, etc.

**Pumps.**—C. W. Elrod, Box 861, Houston, Tex.—Pumps for amusement park.

**Radio Outfit.**—C. W. Elrod, Box 861, Houston, Tex.—Receiving and broadcasting radio outfit.

**Railroad Switch Equipment.**—Hackley Morrison Co., Inc., 1709 Lewis St., Richmond, Va.—24 bridel bars, 6 throw roads, 5 target latches, 8 guard rails, 24 guard rail clamps, 114 friction plates, 139 rail braces to fit friction plates; all for 60 lb. switches for standard gauge track.

**Rails.**—Hackley Morrison Co., Inc. (Mchy. Dealers), 1709 Lewis St., Richmond, Va.—One standard gauge crossover 35 to 40 degrees, made of 56 or 60 lb. rails; ten to 20 tons of 12 lbs. relaying rails.

**Rails (Relay).**—H. W. Dexter (Mchy. Dealers), Bisbee Bldg., Jacksonville, Fla.—50 mi. of 20 lb. relay rails.

**Road Construction.**—Logan County Court, J. N. Smith, County Clk., Logan, W. Va.—Bids until Apr. 27 to grade, construct drainage structures and lay cement concrete pavement on 3.4 mi. Monitor Junction-Holden road; plans, etc., from T. J. Wyson, County Clk., Logan, or State Road Div. Engr., Huntington, W. Va.

**Road Construction.**—Harris County, H. L. Washburn, County Auditor, Houston, Tex.—Bids until Apr. 25 to resurface 5 roads as follows: Westheimer, Lynchburg-Baytown-Goose Creek, Lynchburg-Crosby and Pelly-Baytown roads, and Pruitt St., Goose Creek; plans, etc., from County Engrs.

**Road Construction.**—Lake County Commrs., T. C. Smyth, County Clk., Tavares, Fla.—Bids until May 7 to grade, construct drainage structures and surface with sand clay, 6.1 mi. Road No. 1, South Lake County Special Road and Bridge Dist., between north boundary of Howey and Leesburg-Mascotte road, via Yalaha; plans, etc., from Geo. E. Heller, County Engr.

**Road Construction.**—Harrison County, John W. Scott, County Judge, Marshall, Tex.—Bids until Apr. 24 to surface 23.41 mi. S. H. No. 11; 87,910 gals. asphalt; 3711 cu. yds. cover material; Geo. A. McClellan, County Engr. (Lately noted.)

**Road Construction.**—Palm Beach County Commrs., R. L. McCarley, Chmn., West Palm Beach, Fla.—Bids until Apr. 21 to build 2 roads as follows: 61,000 ft. 9-ft. paved road along South Bank of St. Lucie Canal, from intersection with Jupiter-Indiantown road, to shore of Lake Okeechobee, will also build timber trestles and culverts; also hard surfaced road from point on North line of Section 22, Township 40 South, Range 42, East, to connection with Hooley's Point road; plans, etc., from County Engr.

**Road Construction.**—State Roads Comsn., 601 Garrett Bldg., Baltimore, Md.—Bids un-

til May 1 to build 5 roads as follows: Washington County, 7.8 mi. macadam reconstruction, from Hagerstown to Smithburg, Cont. W-24; Baltimore County, 2.2 mi. concrete, from Mt. Carmel to Blackrock, Cont. B-55; Baltimore City, 1.52 mi. sheet asphalt, along Madison Ave. from Madison St. to Druid Hill Park, Cont. BC-45; Prince Georges County, 1.92 mi. gravel, from Oxen Hill toward Silesia, Cont. P-36; Wicomico County, 1.36 mi. concrete, along Church St., Salisbury, and from Moore's Corner to Fruitland, Cont. WI-24.

**Road Construction.**—Abbeville County Highway Commrs., L. W. Keller, Secy., Abbeville, S. C.—Bids until April 25 to build 11.8 mi. top soil road from W. J. Milford's, via Fairs Bridge and Level Land, known as Level Land Road; plans, etc., from H. B. Humbert, County Engr., Abbeville.

**Road Construction.**—Carter County, State Line Road Comsn., Frank A. Taylor, Chmn., Elizabethton, Tenn.—Bids until May 10 to grade, drain and hard surface 25 mi. State Line Road.

**Road Construction.**—Lake County Commrs., T. C. Smyth, County Clk., Tavares, Fla.—Bids until May 7 to grade, drain and surface with sand clay, 10 road projects Nos. 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, aggregating 38 mi. in South Lake County Special Road and Bridge Dist.; plans, etc., from Geo. E. Heller, County Engr.

**Road Construction.**—Matagorda County Commrs. Court, Ames Lee, County Auditor, Bay City, Tex.—Bids until Apr. 27 to repair 4½ mi. road from Matagorda to Gulf, known as Bay Shore road; plans, etc., from W. E. McNabb, County Judge, or J. C. Carrington, Engr. in charge.

**Roofing.**—Dr. F. P. Tucker, Milton, N. C.—See Building Material.

**Roofing (Tile).**—D. N. Tilley, Pilot Mountain, N. C.—Tile roofing.

**Rubber Reclaiming Equipment.**—Randolph K. Hock, Elkins, W. Va.—Mchy. and equipment for the reclaiming of scrap rubber, tires, etc., also mfre. of rubber mats and novelties.

**Sand Paper Machinery.**—J. V. Thompson, South Boston, Va.—Mchy. for making sand paper, also correspond with mfrs. of sand paper.

**Seating.**—School Board, E. P. Woodward, Prest., Stanton, Tex.—Six hundred opera chairs for school.

**Sewer.**—Dist. Commrs., Room 509 Dist. Bldg., Washington, D. C.—Bids until April 27 to construct approx. 3045 lin. ft. of sewer and 1713 lin. ft. of sewer invert.

**Sewer and Storm Water Drains.**—City of St. Petersburg, Fla., H. T. Davis, Director of Finance—Bids until May 15 to construct storm water drain, approx. 67,939 ft. of 10 to 84-in. pipe and all inlets, manholes and special structures; also for sanitary sewer in first alley south and first alley north from 1st. to 8th Sts., and second alley north from 1st to 6th Sts., approx. .8025 ft. of 12-in. pipe, and 1643 ft. of 10-in. pipe, 28 holes; R. D. Brodie, Sanitary Engr.

**Shafting.**—See Pulleys, etc.

**Shovel (Steam).**—R. P. Johnson (Mchy. Dealers), Wytheville, Va.—½ to ¾ yd. steam shovel, Erie preferred; second-hand.

**Sidewalk Construction.**—M. O. King, Mayor, Graceville, Fla.—Bids until May 1 to lay 10,000 sq. yds. one course concrete sidewalks; plans, etc. from O. H. Lang, Consit. Engr., Moultrie, Ga.

**Sidewalk Construction.**—Clay B. Tucker, Clk., Woodville, Miss.—Bids until May 1 to lay 2 mi. concrete sidewalks; plans, etc. on file.

**Skidder.**—Pennsylvania Equipment Co., Norwood Station, Pa.—Second-hand Clyde skidder, for California delivery.

**Soda Fountain, etc.**—C. W. Elrod, Box 861, Houston, Texas—Soda fountain, soft drinks, corn machines, etc., for amusement park.

**Steel Bars, etc.**—Norfolk & Western Ry. Co., J. H. Clemmitt, Purchasing Agt., Roanoke, Va.—Bids until April 18 for approx. 2000 tons of steel bars, shapes, and plates for shipment during fourth quarter of 1923; Contr. serials No. AA-250.

**Steel Columns.**—McMillin - Clark Investment Co., C. C. McMillin, Prest., Inman, S. C. Steel columns for five buildings at Spartanburg, S. C. See Building Materials.

**Steel Columns.**—See Building Materials.

**Store Fronts.**—McMillin-Clark Investment Co., C. C. McMillin, Prest., Inman, S. C.—Plate glass store fronts for five buildings at Spartanburg, S. C. See Building Materials.

**Storm Sewers.**—City of Houston, Tex., O. F. Holcombe, Mayor.—Bids until April 18 to construct storm sewers on Portland, Oakdale and Barkdull Sts.

**Storm Water Drains.**—Board of Awards, Wm. F. Broening, Prest., Baltimore, Md.—Bids until April 23 to construct storm water drains and appurtenances according to Contract No. 57; work consists of approx. 12,000 lin. ft. of drains ranging from 15-in. to 72-in. internal dimensions, along with all appurtenant structures; plans, etc., from Highway Engr., Room 8, City Hall.

**Tanks.**—A. Murrison, Dorchester, Tex.—Tanks for ginning plant.

**Tile Machine, etc.**—C. H. Crow, New Orleans, La.—Data on concrete roof shingle or tile machine.

**Transformer.**—Machinery Clearing House, Indianapolis, Ind.—One 37½ KVA single phase, 25 cycle transformer, 3300 volt primary and 220 volt secondary; could use 33,000 volt to 220 volt.

**Trenching Machines.**—Glenwild Plantation Grenada, Miss.—Second-hand Buck Eye trenching machines for digging ditches; J. Paul Gaines, Engr., 205 Falls Bldg., Memphis, Tenn.

**Tubes (Boiler).**—N. Adelman, Hagerstown, Md.—4-in. boiler tubes, any amount up to 400 tons; immediate delivery.

**Underpass Construction.**—Dallas County, Chas. E. Gross, County Auditor, Dallas, Tex.—Bids until April 23 to construct reinforced concrete underpass structures on Lancaster road, at crossings of interurban; 555.19 cu. yds. concrete; 12,775 lbs. reinforcing steel; 30,500 lbs. structural steel; plans, etc., from Nagle, Witt & Rollins, Engrs., Dallas, Tex.

**Vault.**—Paul G. Silber & Co., San Antonio, Tex.—Vault for bank building at Cameron, Tex.

**Vault Equipment.**—Paul G. Silber & Co., San Antonio, Tex.—Vault equipment for bank building at Winters, Tex.

**Water Works.**—City of Culpeper, Va., R. F. Booton, Chmn. Water Commission.—Bids until April 25 to furnish all material, mchy., etc., to construct mechanical filtration plant, 1,000,000 gal. daily capacity, to include small concrete dam on Mountain Run, with intake crib; 12-in. raw water pipe line, partly cast iron and partly vitrified concrete; reinforced concrete pumping well; coagulation basin and filter building; all filtration equipment and regulation devices, etc.; two 350 GPM centrifugal pumps with D. C. motors; 8-in. cast iron clear water pipe line; 4-in. feed line to tank and 10-in. wash line, both cast iron; 15-in. vitrified concrete main drains, with manholes; 30,000 gal. hemispherical bottom steel wash tower, 39-ft.

high; concrete foundation for the above; Ambler Engineering Co., Engr. Old Dominion Trust Bldg., Richmond, Va.

**Waterworks.**—Commrs. of Memphis Artesian Water Dept., Memphis, Tenn.—Bids until May 12 for following contracts:

Contract 14—to furnish labor and material except the furnishing of cast iron pipe and fittings necessary to construct approx. 18,000 lin. ft. of 14, 20, 30, 36 and 42-in. cast iron pipe line, 27,000 lin. ft. of 4, 6, 8, 10-in. steel pipe line and 9500 lin. ft. of 12-in. vitrified clay pipe line, all complete with valves and appurtenances.

Contract 15—to furnish and deliver f. o. b. cars Memphis approx. 3100 tons of Class A cast iron bell and spigot water pipes and special castings in sizes ranging from 14 to 42-in. diam.; bids obtainable from offices of Fuller & McClintock, Engrs., 879 N. Parkway, Memphis; 206 Walsix Bldg., Kansas City, Mo.; 170 Broadway, New York; 1001 Chestnut St., Phila., Pa.; and 319 Summit Cherry Bldg., Toledo, Ohio.

**Water and Sewer Lines.**—Constructing Quartermaster, U. S. Army, Edgewood Arsenal, Md.—Bids until April 23 to construct water and sewer lines for new houses at Fort Hoyle and Edgewood Arsenal, Md.

**Waterworks Improvement.**—V. D. Guire, Mayor, Lenoir, N. C.—Bids until April 26 to construct 35 ft. concrete arch dam and lay 20,200 ft. of 12-in. pipe line; work consists of approx. quantities: 1000 cu. yds. rock excavation; 1000 cu. yds. earth excavation; 1400 cu. yds. of 1-2-4 concrete; laying 20,200 lin. ft. of 12-in. cast iron pipe; Mees & Mees, Consult. Engrs., Charlotte, N. C.

**Wiring (Electric).**—etc.—Board of Awards, Richard Gwinn, Register, City Hall, Baltimore, Md.—Bids until April 25 for electric wiring and fixtures in school Nos. 5, 45 and 55; J. W. Crowther, Inspector of Bldgs.

**Woodworking Equipment.**—Randolph K. Hock, Elkins, W. Va.—Equipment for manufacture of bobbins, etc.

**Woodworking Machinery.**—I. C. Coleman, Prest., Mgr., Coleman-Vaughan Furniture Co., Ridgeway, Va.—Mchy. for furniture plant.

**Woodworking Machinery.**—M. A. Carson, Kimesville, N. C.—New and second-hand woodworking mchy., including band saw, drill press; correspond with mfrs. and dealers.

**Woodworking Machinery.**—Clearing House, Indianapolis, Ind.—One 36-in. triple drum sander and one drum sander 24 to 30-in.

**Wax (Floor).**—C. W. Elrod, Box 861, Houston, Texas—Floor wax for dance hall of amusement park.

**Woodworking Machinery.**—Bedsle & Girard, 1107 W. Douglas St., Wichita, Kan.—Power lathe, drill press and other woodworking mchy.

## Financial News

### New Financial Corporations.

Ala., Eufaula—The East Alabama National Bank took over the business of the Bank of Eufaula.

Fla., Fort Lauderdale—Fort Lauderdale Securities Co., capital \$100,000, inceptd. with W. C. Kyle, Prest.; C. J. Joiner, Secy. and Treas.

Md., Baltimore—Maryland-Virginia Joint Stock Land Bank, Equitable Trust Co.'s office, capital \$250,000, inceptd. with 71 more Jeffrey, Prest.

Mo., Kansas City—National Fidelity Life Ins. Co., capital \$100,000, inceptd. by R. H. Rice, D. P. Shull, W. G. Moulton, C. T. Prime and others.

N. C., Durham—Southern Commercial Co., capital \$100,000, inceptd. by G. F. Mayes, L. H. Bryant and M. R. Long, subscribers.

N. C., Greensboro—The Greensboro Insurance and Realty Co. inceptd. with H. T. Ireland, Prest.; J. B. Ward, Secy.

N. C., New Bern—The People's Bank and the National Bank of New Bern merged.

S. C., Greer—The Greer Bank and Trust Co., capital \$100,000, inceptd. with E. C. Bailey, Prest.; C. L. Cobb, T. E. Smith and others.

S. C., Union—The Union Insurance and Trust Co., capital \$20,000, inceptd. with C. Sanders, Prest.; B. F. Kennedy, Vice-Prest.

Tenn., Memphis—Southern State Securities Co., capital \$10,000, inceptd. by H. E. Fitzgerald, B. W. Norman, Yandell Haun and others.

Tex., Arlington—The Farmers National Bank purchased the Arlington State Bank.

Tex., Brenham—Brenham Building and Loan Assn., capital \$250,000, inceptd. by A. A. Hacker, O. E. Baumgart, W. H. Zschappel.

Tex., Nacogdoches—The Nacogdoches Building and Loan Assn., capital \$50,000, inceptd. by D. K. Cason, Thomas E. Baker, L. B. Mast and others.

W. Va., Morgantown—Union Investment Co., capital \$250,000, inceptd. by James H. McGrew, Thomas Ray Dillie, John Botlas and others.

### New Securities.

Ala., Albany—Street—City sold \$125,000 bonds to John D. Weakley, of Birmingham, at par.

Ark., McGehee—Levee—Southeast Arkansas Levee Dist., R. D. Chotard, Prest., will receive bids at the office of the Arkansas-Louisiana Highway Improvement Dist. May 8 for \$300,000, 6%, \$1000 denom. bonds.

Fla., Bradentown—Municipal—City sold \$86,000 bonds to Hanchett & Co., of Chicago. Address The Mayor.

Fla., Green Cove Springs—Road and Bridge—Clay County Special Road and Bridge Dist. No. 3, L. T. Ivey, Clk. Bd. of Commrs., will receive bids until May 7 for \$35,000, 6% bonds.

Fla., Key West—Street Improvement, Links, Parks.—City will vote May 10 on \$200,000 bonds, including \$25,000 for streets, \$150,000 for golf links, and \$25,000 for parks. Address The Mayor.

Fla., Lake Worth—Inlet—City sold \$275,000 bonds to the Farmers Bank and Trust Co. for a premium of \$24,070. Address The Mayor.

Fla., Miami Beach—Water, Light, Bridge, Sewers, and Paving.—City voted \$200,000 bonds. Address The Mayor.

Fla., Sebring—Road—Highlands County sold \$525,000, 6% bonds to Spitzer, Rorick & Co. of Toledo and Otto Marx & Co., of Birmingham at 101.87. Address County Commrs.

Fla., Tavares—Road—Leesburg Special Road and Bridge Dist. Lake County sold \$750,000 bonds to The Atlantic National Bank of Jacksonville. Address County Commrs.

Fla., Titusville—Road—Brevard County sold \$140,000 bond issue of Special Road and Bridge Dist. No. 8, to the Bank of South Jacksonville. Address County Commrs.

Fla., West Palm Beach—Road and Bridge.—Palm Beach County Commrs., Dist. No. 15, voted \$55,000 bonds.

Fla., Willow Springs—School—Willow Springs voted \$40,000 bonds. Address The Mayor.

Fla., Winter Garden—Paving and Water Works—Town sold \$40,000, 6% bonds to Prudden & Co., of Toledo. S. G. Carmack, Town Clk. (Lately noted.)

Ga., East Point—School—East Point voted \$75,000 bonds. Address School Dist. Trustees.

La., Arcadia—School—Blenville Parish School Bd., E. H. Fisher, Secy., sold \$50,000 6% \$500 denom. bonds to L. E. French & Co., of Alexandria, La., at par and premium of \$2555. (Lately noted.)

La., Baton Rouge—School—East Baton Rouge, School Dist. No. 7, W. H. Perkins, Prest. School Bd. sold \$50,000, 6% bonds to M. W. Elkins & Co. (Lately noted.)

La., Gibsland—Water and Light—City votes April 17 on \$50,000 bonds. Address The Mayor.

La., Madisonville—Public Impt.—City sold \$25,000, 5½% bonds to the Covington Bank & Trust Co. at par. Address The Mayor.

La., Oil City—School—School Dist. No. 14, voted April 17 on \$75,000 bonds. Address Caddo Parish School Bd., Shreveport, La.

Md., Baltimore—Municipal—City sold \$6,394,000, 5% bonds to a syndicate composed of Hambleton & Co., Nelson, Cook Co., of Baltimore; Graham Parsons & Co., Kountze Bros. & Co., Hallgarten & Co., and Equitable Trust Co. of New York. Address The Mayor.

Md., Hagerstown—Sewer—City sold \$450,000, 4% bonds to a syndicate headed by Stein Bros. & Boyce and the Mercantile Trust Co. of New York. Address William F. Broening, Mayor.

Md., Upper Marlboro—Road and Bridge.—Prince George's County Commrs. will receive bids until May 1 for \$36,000, 4½% \$1000 denom. bonds. Address George N. Wells, Secy. Bd. of Commrs.

Miss., Belzoni—Road—Humphreys County, A. R. Hutchins, Clk. Bd. of Supvrs., will receive bids until May 7 for \$515,000, 6% bonds.

Miss., Belzoni—Road—Beat 1, Humphreys County will vote Apr. 27 on \$400,000 bonds. Address Bd. of Supvrs.

Miss., Belzoni—Road—The Northern end of Beat 1, Precinct Siddon's Store, Humphreys County, voted \$115,000 bonds. Address Bd. of Supvrs.

Miss., Canton—Water and Light—City voted \$75,000 bonds. Address The Mayor.

Miss., Jackson—School and Land—City voted April 14 on \$175,000 bonds. Address The Mayor.

Miss., Natchez—Water and Sewer—City, John F. Jenkins, City Clk., received bids April 17 for \$92,000, 5%, \$1000 denom. bonds.

Miss., Phoenix—School—Phoenix voted \$15,500 bonds. Address The Bd. of Supvrs.

Miss., Senatobia—Road—Tate County Board of Supvrs. will vote May 4 on \$80,000 bonds.

Miss., Woodville—Sidewalks—City voted \$12,000 bonds; Kramer Engineering Co.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Engs., McComb, Miss.; received bids for same, April 17.

Mo., Armstrong—School—Armstrong consolidated School Dist. voted \$50,000 bonds. Address School Dist. Trustees.

Mo., Brookfield—Electric plant—City will vote April 30 on \$95,000 bonds. Address The Mayor.

Mo., Cameron—School—City will vote April 21 on \$80,000 bonds. Address Bd. of Education.

Mo., Cassville—School and Fire Equipment—Town voted \$17,500 bonds. Address Dr. S. A. Newman, Mayor.

Mo., Franklin—Bridge—Township contemplates voting on \$25,000 bonds. Address The Mayor.

Mo., Hermann—School—Hermann School Dist. voted \$50,000 bonds. School Dist. Trustees.

Mo., Joplin — School—City, J. G. Starr, Treas. School Dist. will receive bids at the Conqueror Trust Co. May 1 for \$75,000, 5% \$1000 denom. bonds.

Mo., McBaine—School—Star School Dist. voted \$6000 bonds. Address School Dist. Trustees.

Mo., Monroe City—School—City voted \$75,000 bonds. Address The Mayor.

Mo., Trenton — School—Trenton School Dist. voted \$200,000 bonds. Address School Dist. Trustees.

Mo., University City—Municipal Improvement—City voted \$470,000 bonds. Address the Mayor. (Lately noted.)

N. C., Albemarle—Water, Street and Sewer—Town, Eli Kendrick, Town Clk., will receive bids until May 8 for \$100,000 bonds.

N. C., Danbury—Road—Stokes County Highway Comsn., will issue \$60,000 bonds.

N. C., Greenville—Bridge—Pitt County sold \$100,000, 5% bonds to the Title Guarantee & Trust Co. of Cincinnati at 102.10. Address County Commrs.

N. C., Kernersville—Refund—Town, will sell \$10,000 bonds. Address O. L. Jouner, Secy.

N. C., Kinston—School—Kinston Graded School Dist. Bd. of Trustees Brainger Bldg., will receive bids until April 23 for \$200,000 bonds. Address Supt. Bd. of Trustees.

N. C., Lexington—Davidson County sold \$100,000 bonds. Address County Commrs.

N. C., Mount Airy—Schools Funding—Mount Airy voted \$30,000 bonds. Address A. V. West, Mayor.

N. C., Newton—Street and Water—Town sold \$115,000, 5½% bonds to the Klean. Higbee & Co. of Detroit, Mich. Address The Mayor.

N. C., North Wilkesboro—Street, Water, Light—Town, S. L. Pardue, Town Clk., will receive bids until April 23 for \$25,000, 6% \$1000 denom. bonds.

N. C., Norwood—Improvement—Town, J. H. Norwood, Town Clk., will receive bids until May 1 for \$65,000, 6% bonds. (Supercedes previous item.)

N. C., Raleigh—Funding—Wake County, Wm. H. Penney, Clk. Bd. of County Commrs. will receive bids until May 9 for \$50,000, 5½% bonds.

N. C., Roxboro—Sewer and Water—Town sold \$50,000 bonds to Spitzer, Rorick & Co., of Toledo, Ohio. Address The Mayor.

N. C., Statesville—Drainage—Upper Third Creek Drainage Dist., William A. Bristol, Atty., will sell \$12,000 bonds.

N. C., Walnut Cove—School—Walnut Cove Special School Tax Dist. voted April 16 on \$15,000 bonds. Address H. R. Bowen, Clk. Bd. of County Commrs.

Okla., Aline—School—Aline School Dist. sold \$26,800, 5% bonds to E. D. Edwards, of Oklahoma City. Address School Dist. Trustees.

Okla., Cordell—School—Cordell voted \$40,000 bonds. Address The Mayor.

Okla., Drumwright—Road—Tiger Township sold \$300,000, 6% \$1000 denom. bonds to Gates, White & Co., of St. Paul. Address Town Clk.

Okla., Lawton—School—Lawton School Dist. No. 3 voted \$30,000 bonds. Address School Dist. Trustees.

Okla., Muskogee—Courthouse—Muskogee County contemplates voting on from \$50,000 to \$75,000 bonds. Address County Commrs.

Okla., Pauls Valley—Park—Pauls Valley voted \$15,000 bonds. Address The Mayor.

Okla., Ponca City—School—City sold \$119,000, 5%, \$1000 denom. bonds to Gates, White & Co., of St. Paul. Address The Mayor.

Okla., Tahlequah — Bridges — Cherokee County contemplates voting on \$100,000 bonds. Address County Commrs.

S. C., Charleston—Sewer—City sold \$500,000 bonds to the People's National Bank of Charleston. Address The Mayor.

S. C., Cheraw—Road, Bridge and School—Chesterfield County sold \$300,000 bonds to Sidney Spitzer & Co., Toledo. Address County Commrs.

S. C., Cheraw—School—Cheraw School Dist. sold \$75,000, 5% bonds to J. H. Hillsman & Co., of Atlanta. Address School Dist. Trustees.

S. C., Columbia—School—Richland County sold \$100,000, 5% bonds to Stacy and Braun, Toledo, Ohio. Address County Commrs.

S. C., Columbia—Indebtedness—Richland County will sell \$100,000 bonds. Address Andrew Patterson, Supvr.

S. C., Columbia—School—School Dist., No. 20 voted \$20,000 bonds. Address School Dist. Trustees.

S. C., Florence—School—Florence School Dist. voted \$17,500 bonds. Address School Dist. Trustees.

S. C., Gaffney—School—School Dist. No. 10, F. W. Sossamon, Clk. Md. of Trustees, voted \$300,000, 5%, \$1000 denom. bonds and bids will be received April 17 for same. (Lately noted.)

S. C., Georgetown—Bridge—Georgetown County sold \$50,000, 5% bonds to Sidney Spitzer & Co., of Toledo. Address County Commrs.

S. C., Greenville—Park—City deferred for 30 days \$110,000 bond election to have been held April 4. Address Mayor Harvley.

S. C., Greenville—School—City will vote April 24 on \$240,000 bonds. Address The Mayor.

S. C., Jefferson—School—Jefferson School Dist. sold \$10,000, 6% \$1000 denom. bonds to J. H. Hillsman & Co., of Atlanta. Address School Dist. Trustees.

S. C., Saluda—Street—City will vote June 11 on \$65,000 bonds. Address P. H. Bailey, Mayor.

S. C., Saluda—Water—City sold \$25,000 bonds to an Asheville firm. Address The Mayor.

S. C., Sandy Springs—School—Pendleton School Dist. No. 2 voted April 14 on \$17,000 bonds. Address School Dist. Trustees.

S. C., Spartanburg—Highway—Spartan-

burg County, J. J. Verman, Supvr., will receive bids until Apr. 24 for \$1,123,000, 4½% bonds.

S. C., Spartanburg—Fire Station, Street and Sewer—City contemplates voting on \$85,000 bonds. Address John F. Floyd, Mayor.

S. C., Spartanburg—Funding—Spartanburg County, J. J. Vernon, Supvr., will receive bids until Apr. 24 for \$110,000, 5% bonds.

S. C., Sumter—School—County will vote on \$300,000 bonds. Address County Commrs.

S. C., Sumter—Road and Bridge—Sumter County Permanent Road Comsn., J. J. Brennan, Secy., received bids April 19 for \$500,000, 5%, \$1000 denom. bonds.

S. C., Sumter—Road—Sumter County, Permanent Roads Comsn., will vote May 8 on \$750,000 bonds.

S. C., Westville—School—Westville contemplates issuing \$8000 bonds. Address M. C. Barton, County Supt. of Education.

S. C., Winnsboro—Fairfield County, G. A. Johnstone, Secy., received bids Apr. 19 for \$500,000, 5% bonds. Address County Commrs.

Tenn., Baxter—School—City, U. D. Nunnally, Mayor, received bids April 16 for \$10,000, 6%, \$1000 denom. bonds.

Tenn., Franklin—Waterworks—Town, Park Marshall, Mayor sold \$25,000, 5%, \$500 denom. bonds to Williamson County Banking & Trust Co. of Franklin.

Tenn., Greenville—Road—Greene County reported to vote June 21 on \$200,000 bonds. Address County Commrs.

Tenn., Jonesboro—School—Town will vote April 30 on \$250,000 bonds. Address The Mayor.

Tenn., Madisonville—Water — City voted April 10 on \$35,000 bonds. Address The Mayor.

Tenn., Memphis—City sold \$500,000 bonds to Caldwell & Co., Nashville, the Bankers' Trust Co., and Curtis & Sawyer, of New York.

Tenn., Morristown—Improvement — Town, Lucil A. Howell sold \$304,300 bonds to the Morristown Trust Co. at par and accrued interest.

Tenn., Nashville—Bridge—City contemplates selling \$300,000 bonds. Address The Mayor.

Tenn., Nashville—Street—City will receive bids until April 27 for \$285,000 bonds. Address The Mayor.

Tex., Alpine—Road—Brewster County sold \$300,000, 5½% bonds to Hall & Hall, of Temple, at premium. Address County Commrs.

Tex., Anahuac—Road—Chambers County, Joe F. Wilson, County Judge, will vote Apr. 28 on \$110,000 bonds, including \$100,000 for Road Dist. No. 4, and \$10,000 for Road Dist. No. 1.

Tex., Big Spring—Sewer—City voted April 16 on \$60,000, 6% bonds. Address The Mayor.

Tex., Brownfield—School—Brownfield Independent School Dist. sold \$25,000, 5% bonds to Taulorp White Co., of Oklahoma City. Address School Dist. Trustees.

Tex., Cameron—Road—Milan County Road Dist. No. 33 sold \$33,000 bonds to the First Municipal Bond & Mtge. Co., of Dallas. Address County Commrs.

Tex., Clarksville—Street and Market—City voted \$22,000 bonds. Address The Mayor.

Tex., Cleburne—Road—Johnson County, Lone Star Dist., contemplates voting on \$50,000 bonds. Address County Commrs.

Tex., Cleburne—School—Friendship Dist. voted \$8000 bonds. Address School Dist. Trustees.

Tex., Clifton—Water, Light and City Hall—City sold \$80,000 bonds. Address The Mayor.

Tex., Corsicana—Street Improvement, Water, Sewer—J. S. Eubank, Mayor, voted \$100,000 bonds, including \$75,000 for street improvement, \$15,000 for water, and \$10,000 for sewer. (Lately noted.)

Tex., Edgewood—Water and Light—City will vote April 28 on \$65,000, 6% bonds. Address J. R. Greer, Mayor.

Tex., Elgin—water—City voted April 10 on \$40,000, 5½% bonds. Address The Mayor.

Tex., Fairfield—Road—Freestone County, Graham Road Dist., will vote April 28 on \$10,000 bonds. J. F. Roper, County Judge.

Tex., Galveston—Street Improvement—Chas. A. Keenan, Mayor, will vote May 8 on \$1,250,000 bonds.

Tex., Graham—Refunding—City sold \$147,000, 6% bonds to Lorenzo E. Anderson & Co. and the Mercantile Trust Co. jointly. Address The Mayor.

Tex., Granbury—Light—City voted \$28,000 bonds. Address A. T. Keith, Mayor.

Tex., Grandfalls—School—Grandfalls Common School Dist. No. 3 sold \$14,000 bonds to J. L. Arlitt of Austin, Tex. Address School Dist. Trustees.

Tex., Greenville—Water Works and Sewer—City, J. O. Wilman, City Clk., receive bids April 17 for \$85,000, 5% bonds.

Tex., Hemphill—Road—Sabine County sold \$401,000 bonds of 10 road Dist. Address County Commrs.

Tex., Henrietta—Road—Clay County sold \$7550 Road Dist. No. 2 bonds to H. C. Burt & Co. of Houston at par and accrued interest.

Tex., Houston—Improvement—City voted \$1,250,000 bonds. Address Mayor Holcombe. (Lately noted.)

Tex., Houston—Drainage—Harris County Drainage Dist. No. 12, Chester H. Bryan, County Judge, will receive bids until May 1 for \$450,000, 5% \$1000 denom. bonds.

Tex., Houston—School—The Independent School Dist. of Houston will vote May 7 on \$3,000,000 bonds. R. B. Cousins, Supt. of the Bd. of Education.

Tex., Lagrange—Road—Fayette County, Road Dist. No. 6, J. P. Ehlinger, County Judge, will vote Apr. 24 on \$25,000 bonds.

Tex., Lagrange—Road—Fayette County Road Dist. No. 3 sold \$50,000, 5% bonds locally. Address County Commrs.

Tex., Laredo—School—Laredo Independent School Dist. sold \$75,000 bonds. Address School Dist. Trustees.

Tex., Marshall—School, Water, Streets, Sewer and Refund—City will vote on \$608,000 bond issue. Address The Mayor.

Tex., Mathis—School—Mathis Independent School Dist. will open bids for \$12,500, 6% bonds. Address School Dist. Trustees.

Tex., Sanderson—Road—Terrell County sold \$240,000, 5% bonds to Caldwell & Co., of Nashville, Tenn., at par.

Tex., Sherman—Funding—Grayson County sold \$716,000, 4¾% bonds to the National Bank of Commerce of St. Louis. Address County Commrs.

Tex., Sulphur Springs—Road—Hopkins County contemplates voting on \$2,000,000 bonds. Address W. W. Evans, Secy., Chamber of Commerce, or R. E. Bertram, County Judge, Sulphur Springs.

Tex., Tyler—County sold \$90,000 bonds for

par and accrued interest. Address County Commrs.

Tex., Van Alstyne—Sewer—City will vote April 23 on \$10,000 bonds. Address Ed. P. Williams, Mayor.

Tex., Weimar—City Hall—City voted \$20,000 bonds. Address The Mayor.

Tex., Wills Point—Street and Electric Light plant—City voted \$35,000 bonds. Address The Mayor. (Lately noted.)

Tex., Wolfe—City—Water and School—City contemplates voting on \$100,000 bonds. Address The Mayor.

Va., Elkton—Water—City voted \$75,000 bonds. Address The Mayor.

Va., Fort Myer Heights—Arlington County Board of Supvrs., Jefferson Dist., will vote May 15 on \$400,000 bonds.

Va., Graham—Street and Sidewalk—Town, V. L. Sexton, Town Atty., opened bids April 10 for \$37,500, 5% bonds.

Va., Radford—School and Street—City will vote April 17 on \$250,000 bonds, interest not to exceed 6%, \$1000 denom. Address The Mayor.

W. Va., Iaeger—Street Improvement—W. T. Vaas, Mayor, voted April 16 on \$40,000 bonds.

W. Va., Parkersburg—Road—Wood County, Harris Dist., will vote April 20 on \$85,000 bonds. Address County Commrs.

W. Va., Triadelphia—School—Triadelphia Dist. voted \$105,000 bonds. Address School Dist. Trustees.

## Financial Notes.

Alabama Home Building and Loan Ass., Birmingham, Ala., will increase capital.

American Mutual Savings Bank, Louisville, Ky., will increase capital from \$100,000 to \$150,000.

Bank of Commerce, Jackson, Tenn., increased capital from \$50,000 to \$100,000.

Bank of Monterey, Monterey, Tenn., increased capital from \$27,000 to \$30,000.

Citizens Building and Loan Assn., Greer, S. C., will increase capital from \$150,000 to \$1,000,000.

First State Bank, Irvington, Ky., will increase capital from \$15,000 to \$125,000.

Kentucky Building and Loan Assn., Newport, Ky., will increase capital from \$6,000,000 to \$7,000,000.

Kentucky Investment - Brokerage Co., Louisville, Ky., increased capital from \$76,500 to \$100,000.

## Trade Literature.

### A Valuable Instruction Booklet.

The Sullivan Machinery Co., Peoples Gas Building, Chicago, have issued their new instruction booklet No. 72-C, entitled: "Handbook of Rock Drill Steel, Its Selection, Heating, Forging and Tempering." It is really a book which tells how to take care of and use the Sullivan drill sharpeners and drill steel furnaces and it shows an endeavor to add material not ordinarily found in a machine instruction book, and concerning special uses of the sharpeners to enable customers to obtain by-product value from their machines. There is also some theoretical matter on treatment of drill steel

which is expressed as simply as possible that the ordinary blacksmith and master mechanic may understand, besides a practical man's description of the layout for a drill steel sharpening shop and its equipment, a short discussion of the proper heating of drill steel, and specifications for steel to enable the purchasers to select proper steel for drilling work, etc. The book is fully illustrated with pictures and diagrams.

### Capital to Be Increased.

At the annual meeting of Michael & Bivens, electrical engineers and contractors, Gastonia, N. C., J. P. Bivens, F. C. Michael and C. K. Bryant were reelected as directors, F. C. Michael, president and J. P. Bivens, secretary and treasurer. It was decided to increase the capital stock from \$50,000 to \$75,000.

### All About Pumps.

Small single-stage centrifugal pumps for motor or belt drive are described and illustrated in a leaflet and an instruction manual which have been issued by the DeLaval Steam Turbine Co., Trenton, N. J. These pumps are made in 1½ and 2 inch sizes and are designed for capacities ranging from 5 gallons per minute against 10 feet head, up to 130 gallons per minute against 150 feet head. They contain few and simple parts, which are manufactured to limit gauges to insure interchangeability. These publications give very complete tables and instructions for selecting pumps for different conditions, and also explain how to determine the proper speeds, how to select piping, valves, fittings and driving pulleys or motors to obtain efficient and satisfactory installations.

### Book Review.

Labor and Politics. By MOLLIE RAY CARROLL, Ph. D. Boston and New York: Houghton Mifflin Company. 1923. Pp. 206. \$2.

This book is one of the Hart, Schaffner and Marx series of prize essays which were established with the object of attracting the attention of the youth of America to the study of economic and commercial subjects. The author of the volume is professor of economics and sociology at Goucher College, Baltimore, and was formerly staff lecturer in industrial service at the Chicago School of Civics and Philanthropy. It is devoted to a discussion of the attitude of the American Federation of Labor toward legislation and politics. The volume is well made up with paper and printing of the highest grade; the binding is of dark red cloth and lettering in gold. It is a valuable work to add to the libraries of both students and business men.

Rapid Arithmetic. By T. O'Connor Sloane, Ph. D., LL. D. New York: D. Van Nostrand Company. 1922. Pp. 190. Cloth. \$1.50.

This little volume will be of much interest to accountants, teachers and others who are concerned with figures, presenting as it does quick and special methods of arithmetical calculation, together with a collection of puzzles and curiosities of numbers. There are twelve chapters captioned respectively thus: Notation and Signs, Addition, Subtraction, Multiplication, Division, Fractions, The Decimal Point, Interest and Discount-Percentage Calculations, Power of Numbers, Exponents, Squaring the Circle, and Miscellaneous. Numerous examples of rapid calculation are given so that the text may be fully explained to the reader. The book is substantially made with printing in clear, large type on good paper.

## INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily from non-advertisers as from advertisers.

### New Lumber Company Organized.

W. I. McCoy, Box 174 Union, Miss., is organizing there the Union Lumber & Tie Company with offices there and yard at Walnut Grove, Miss., on the Jackson & Eastern Railroad to engage in the whole-sale purchase and sale of Southern pine, hardwood lumber and ties. It is expected to sell to the Midwest and Northern markets. Union is situated in the heart of the short leaf pine district of Mississippi and has three railroads, viz. the Gulf, Mobile & Northern, the Meridian & Memphis, and the Jackson & Eastern. Mr. McCoy, resident manager of the company, remarks that it will have capital enough to pay cash for purchases and in turn will sell for cash.

### Official Changes Announced.

Robert F. Eissler, who for two years has ably filled the position of assistant to the vice-president of the Chicago Pneumatic Tool Co. at New York, being desirous of doing more active sales work, has at his own request assumed the duties of his former position as district manager at Pittsburgh, this change taking place April 1. At the same time Nelson P. Gatch was appointed assistant to the vice-president at New York succeeding Mr. Eissler. Wm. C. Straub has also been appointed district manager at New York succeeding Mr. Gatch promoted.

### Unique Storage and Forwarding Service.

The Southern Terminal Company has been formed at High Point, N. C., for the storage and forwarding of all commodities. It offers service to manufacturers who will forward to it loaded cars, the contents to be stored and delivered on orders. Local and nearby deliveries will be made by trucks. It is remarked that this new enterprise has been warmly welcomed by furniture manufacturers of High Point as it will place at their disposal stocks of finishing materials such as stains, glue, varnish, sand paper, etc. The company has a commodious warehouse on the line of the Southern Railway, with ample sidings. This service also affords northern manufacturers the advantages of a Southern branch, enabling them to meet competition in the matter of deliveries, besides effecting great saving in freight.

### Two Important Industrial Contracts.

Dwight P. Robinson & Co., Inc., 125 East 46th St., New York, have begun construction on an extension to the south power station of the Aliquippa Works of the Jones & Laughlin Steel Corporation, near Woodlawn, Pa. The improvement includes preparation of site, foundations and condenser well, and the erection of an extension to the building to house a 10,000 k.w. steam generator unit with condenser and all other appurtenances. The installation of a new turbine driven pump in the pump house, with connections to steam and water mains is also included. Dwight P. Robinson & Co. report a steady increase in the volume of industrial construction under way and in contemplation. They also have in hand and likewise in the Pittsburgh District, an extensive addition to the Colfax station of the Duquesne Light Co. The work now under way includes both design and construction of this mine-mouth super-power plant.

### Sale of Valuable Manufacturing Plant.

An important sale of the manufacturing plant of the United States & Cuban Allied Works Engineering Corporation will take place on the premises at Bradford, Pa., at 10 A. M., on Monday May 21 and Tuesday May 22 according to a formal announcement which appears elsewhere in this issue. The sale, which will be by auction, includes the real estate, patterns, machinery and materials for the manufacture of air compressors and engines as well as for sugar making machinery. There are several factory buildings besides complete equipment, the machinery comprising planers, lathes, milling machines, drill presses, boring mills, hydraulic presses, grinders, traveling cranes, wood working machinery, etc., besides office equipment. Samuel T. Freeman & Co., 1519-1521 Chestnut St., Philadelphia, Pa., are the auctioneers who will conduct the sale. Further particulars are in the announcement.

### Now In New Executive Position.

A. W. Catlin is now connected with the organization of Waller Crow, Inc., engineers, 327 S. LaSalle St., Chicago Ill., and in an executive capacity with the title of vice president. Mr. Catlin graduated as mining engineer in 1897 at the College of Montana and was associated as consulting engineer and sales engineer on mechanical and electrical work for various large organizations until 1906, after which and until 1916 his work was with organizations in Europe. His experience comprises mining, metallurgy, combustion, mechanical and electrical engineering, including special plant designs in these branches; also steam turbines, gas cleaning, dredging, Diesel engines and hydraulics. He has many successful plants to his credit in foreign countries and is an authority on European industrial methods and practice. While Mr. Catlin's experience thus appears to be largely international his works in the United States and his examinations of phosphate, cement, coal, clay and other properties here have been numerous and of wide range.

### Standard Tests in Belting Factory.

The use of chemical and physical tests as aids in the production of standardized qualities of leather belting are now standard practice in the plant of the Chicago Belting Company, 113-125 North Green St., Chicago, Ill. Every known test is an important part of the manufacturing process. A complete chemical laboratory has been installed together with many interesting special machines for making physical tests of leather, all of which follow the same general description as the standard tests for leather belting adopted by the United States Government. By these tests it is remarked the Chicago Belting Co. is enabled to make leather belting knowing the exact tests for tensile strength, adhesion to pulley, grease content, permanent and temporary stretch, elasticity, piping and straightness of running for each belt. Practically every piece of leather that goes into these belts is thus pretested. Testing and inspection are under the direct supervision of the superintendent, who is assisted by a graduate leather chemist in charge of tests and inspections. This belting leather, it is stated, has an average strength of about 1000 pounds per square inch more than is specified by the Government for first quality.

### Removal of Offices.

The Harrison Construction Co., Inc., contractors and engineers, have announced the removal of their offices from the American National Bank Building to the Virginia Railway & Power Building, Richmond, Va. H. V. Lucas is vice president in charge.

### Is Now President of New Company.

On April 1, W. D. Lewis, Jr. left the active organization of the Standard Fuel & Material Co., Inc., Birmingham, Ala., to accept the presidency of the Superior Lime & Hydrate Company. This company will immediately erect a new and modern lime plant in the heart of the famous Shelby County district at Pelham, Ala. Mr. Lewis still continues his interest in the first-named company and will also be an officer and director of it.

### Big Demand for Molding Sand.

The Kirkpatrick Sand & Cement Co., Birmingham, Ala., is one of the oldest sand producers in the South and is supplying 75 per cent of the sand used by manufacturer of iron, iron products, pipe foundries and manufacturers of castings in the Alabama district. The company handles what is regarded as the best and finest grades of molding sands and it has customers throughout the entire South. It reports enjoying a big volume of trade and has many orders booked for immediate delivery, showing the activity in the line of business it caters to.

### Texas Man Wins Promotion.

G. H. Froebel, manager of the Houston, Texas, branch office of the Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., has been appointed manager of the Company's marine sales department, according to announcement by H. D. Shute, vice-president. Mr. Froebel assumed the duties of his new position on April 1, and his headquarters will be at East Pittsburgh, where he succeeds the late D. D. Faris. He is a native of Berne, Texas, 33 years of age. His education was completed at the San Antonio High School and at the University of Texas. His connection with electrical work began in 1909 when he was employed by the San Antonio Gas & Electric Co. In 1912 he went with the Westinghouse organization and has been with it ever since, excepting when in the United States Army as an officer during the war.

### Stock Bonus Plan a Great Success.

The du Pont Company has just distributed to its employees 14,484 shares of its own stock of a par value of \$1,448,400, and \$130,000 in other securities as the matured portion of bonus awards made from 1918 to 1921 inclusive. The bonuses awarded for 1922 amounted to 2300 shares, par value \$230,000, and they were among 300 employees. Bonus stock valued at \$20,765,999.50 has been awarded employees by the E. I. du Pont de Nemours & Co., and its predecessor, since the bonus plan began in 1904, or an average of more than \$1,000,000 a year. By a recent amendment the time is shortened between the bonus award and delivery of the stock, this being to the further advantage of employees. President Irene du Pont says the plan secures and retains for the company at highest efficiency the best men; it encourages all to further and better effort. At present 27 per cent of the stockholders are employees.

(Continued on Page 110.)

### A Plea for Better Transportation and for More Equable Freight Rates.

C. O. KITSON, Secretary and Treasurer, Blue Ridge Talc Company, Inc., Henry, Va.

You may be interested in learning that we find business coming back in very good shape. Prices are more firm and demand much better. Transportation is still poor, embargoes due both to snow conditions in the North and to the inability of roads to clear up congestion in yards having delayed much of our business the last five months. Car supply has been and is very uncertain. For most of our products going to northern markets the Norfolk & Western Railway seems to depend on cars from those northern lines to supply us with equipment to move our shipments.

We started in business in 1920 purchasing a soapstone plant here after two companies had failed. We saw that for this particular class of soapstone, a plant producing all the market would take, would never be a paying proposition. At once we decided to look for other lines to go with our soapstone proposition. We solved the problem by locating deposits of both ochre and a high carbon black in nearby counties, which we are now producing for mortar color, paint and foundry trades. The combined lines are making a nice business. Our tonnage in 1922 was two and a quarter times 1921, and 1923 already shows 45 per cent of the 1922 total.

We could, however, with reasonable freight rates, market three times what we did in 1922. It costs us just as much to ship to a number of points in West Virginia just east of the Ohio river as from New York City to the same points. The New York-Chicago rate basis is obsolete. It should be replaced with a basis which takes into consideration the increased importance of the manufacturing districts being built up in Virginia and the Carolinas.

### An 80 Years Young Texas Farmer Gives His Views on Finance.

B. P. TEMPLETON, Delvalle, Tex.

I am a farmer by trade and profession near 80 years young, live out in the county, 18 miles from Austin and 15 miles from Bastrop.

As you seem to have invited consultation and correspondence with your subscribers I will now send you what I wrote several months ago, but did not send because I know you have more foolish suggestions made to you than you can afford to pay any attention to.

I differ from you on some things, prohibition in the Federal Constitution is one of them. I think that and female suffrage are and ought to be exclusively the prerogatives of the states, but we all cannot see things alike, and all should have their own opinions and fearlessly express them as you do. I would not go without the RECORD if you doubled the price.

The MANUFACTURERS RECORD is the only publication in the United States that has the courage to express its opinions upon all questions as they arise. Above all things I admire a fighter in the open, such as the RECORD is.

I am no financier, but I believe I have some common sense. I do not understand the banking business; many good lawyers do not understand it. It appears to me that our government has surrendered its duty and prerogatives to the bankers.

Does not the government have to put its guarantee behind every paper dollar that is issued in this nation; doesn't it guarantee every bond the bankers base their notes on? The bankers cannot issue more notes than they have bonds to secure. If this is so why can not the government issue the

money without going through this bank issue hocus-pocus. Listen to them howl "Fiat!"

Why loan, issue or give the banks the money to collect usurious interest on? Why not issue the money at a rate of interest that will pay the expense of issuing and distributing it to the people who have sufficient security and to pay appropriations if the treasury is empty? Let the government issue money according to its ability to collect revenue and the ability of the people to pay taxes. Let the productive ability of the people and the accumulated wealth of the country be the basis of the circulating medium or measure of values. We are in the darkness of medieval night worshipping idols. Gold is one of them. Egyptian, Babylonian, Greek and Roman superstitions and Jewish fables are others.

Why cannot we get out in the bright sun of invention and the discovery of nature's secrets? We have chained the lightning, we talk through space, fly above the clouds, we place a water wheel in position below a fall and transmit the power hundreds of miles, we touch a button to strike a light instead of using the ancient flint and steel—why cannot we manage our financial affairs without setting traps for a few to rob the many through the usurious manipulation of interest?

If any man has made and accumulated money let him sell the use of it to any one who wants to buy (borrow), the same as selling his manufactured goods or farm products. Let him lend his money to the borrower upon terms and interest that they may mutually agree upon, but do not let our government create, make or issue any more money to any one to collect interest on. Stop that infernal favoritism as soon as Congress can act.

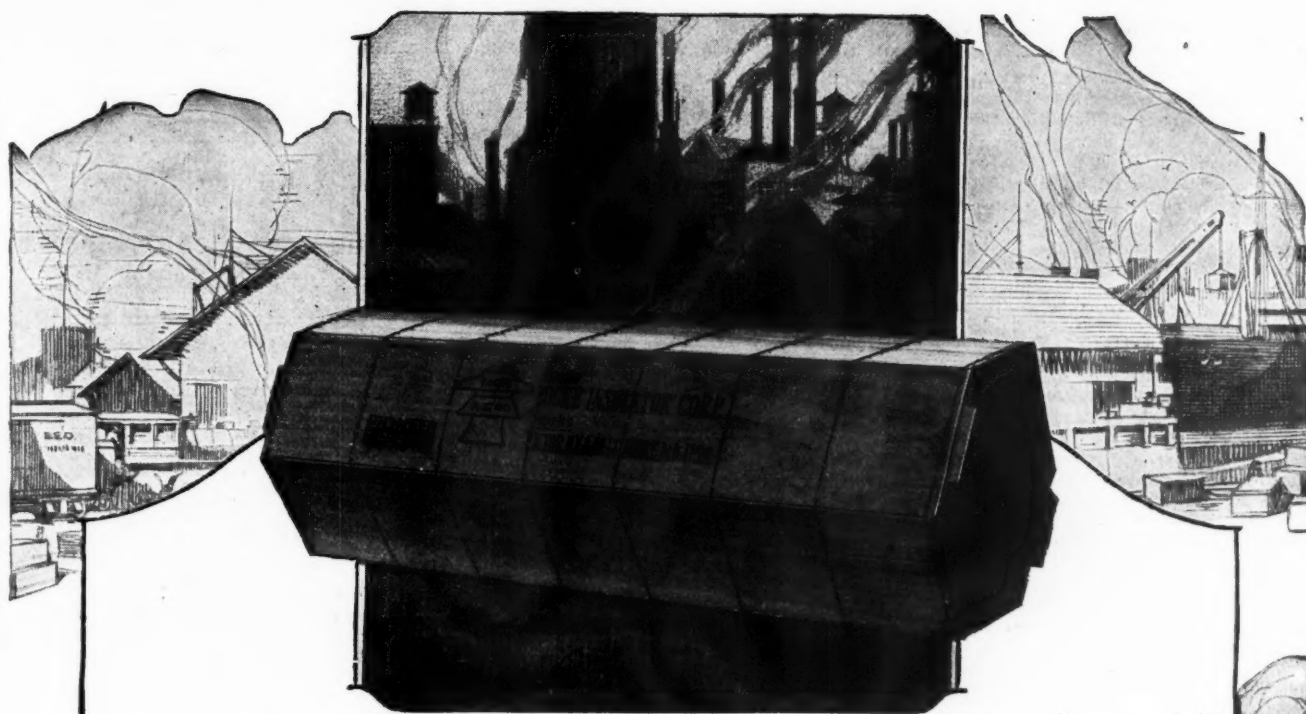
Let the government be the banker for the nation as a whole and all the people, personally and individually. Many of the privileged who are accumulating riches by collecting interest on all the peoples' money and grafting in other ways will raise a howl about fiat. What would any government amount to whose fiat was impotent?

Our government's fiat was good enough to nullify secession and set over four million slaves free. Its fiat (Greenbacks) went on the skirmish line and on the vidette posts, charged batteries and breastworks in the soldiers' pockets, and to use the late expression; won the war from 1861 to 1865. Its fiat is good on hundreds of millions of postage stamps. Hear them howl "Cancellation!" But the money the government receives for the stamps is not canceled, burned up or thrown away, and is just as much fiat as any other money derived from revenue stamps or tax receipts. Why isn't the government's fiat good on its bills of credit the same as on postage and revenue stamps? Why any difference in a double-eagle and a twenty dollar bill?

The gold idol is an idiotic superstition, the same as a lot of other idols whose existence depends upon the ignorance and gullibility of humanity in general. Let the government's credit be gauged by its sources of revenue and the ability of the people to produce marketable articles and pay taxes.

The ability of the people to pay taxes is the basis of the nation's wealth, the government has no other resource. Why create credit and give it to banks to lend at interest? Stop giving government money and credit to men to speculate on. Stop it now. Cut out all privileges, grant no more immunities. Equal rights and equal burdens for all.

The Anchor Mills, Huntersville, N. C., of which C. W. Johnston of Charlotte is president, have filed a charter of incorporation providing a capital stock of \$1,500,000, of which \$1,400,000 is common stock and \$100,000 preferred. In addition to Mr. Johnston, other incorporators of the company are J. Leake Spencer and R. H. Johnston.



## What Scientific Boxing or Crating Means

The experience of the Locke Insulator Corporation illustrates what can be accomplished through scientific boxing or crating.

After years of experiment the Locke Insulator Corporation developed a very effective method of interior packing for their insulators. It was entirely original with them and was so satisfactory it was patented.

This achievement made them feel that improvements could also be made in their shipping containers. Instead of wasting their own time they decided to utilize the services of crating specialists. Accordingly a General Box Engineer was called in.

After a thorough analysis of conditions the type of crate illustrated above was recommended. On a test shipment of several thousand of these crates to Spain not one insulator was damaged.

Continued use developed the following facts: Damage claims became negligible. Customers expressed enthusiastic approval. Freight and express charges were reduced—the new container was 50% lighter than the old one. The cost of assembling was lowered. Twenty-five per cent. more crates could be shipped in the same space.

This instance is typical of what can be done for shippers by competent counsel. It is the natural result of specialized knowledge applied to a particular problem.

The services of General Box Engineers are available to any shipper East of the Rocky Mountains.

There is no cost or obligation involved as this is part of our regular service. The recommendations of these men can be relied upon as we manufacture every type of wooden container in general use.

*We will be glad to send our booklet—G B C Service—to any one interested in better packing methods. Simply write us.*

# GENERAL BOX COMPANY

44 WEST ILLINOIS STREET — CHICAGO

**FACTORIES AT**  
Bogalusa, La.  
Brewton, Ala.  
Brooklyn, N. Y.  
Cincinnati, Ohio

Detroit, Mich.  
East St. Louis, Ill.  
Hattiesburg, Miss.

Houston, Tex.  
Illmo, Mo.  
Kansas City, Mo.  
Louisville, Ky.

Nashville, Tenn.  
New Orleans, La.  
Pearl River, La.  
Sheboygan, Wis.  
Winchendon, Mass.

(Continued from page 107)

**Texas Manufacturers Organize.**

The Texas State Manufacturers Association, G. M. Knebel, vice-president-manager, was recently organized with headquarters at the St. Anthony Hotel, San Antonio, Tex., and, it is stated, will stand for the upbuilding of Texas along industrial lines by fostering the use and consumption of Texas-made products within that state. The industrial census taken by the United States Government in 1920, it is remarked, showed that the industries of Texas produced during the year 1919 a total of \$999,996,000 of manufactures, being fourteenth in the list of states and leading the entire South in that respect, and through its development department the Association will assist capital in locating new industries in those sections of the state that abound in natural resources and raw materials. The cost of subscription ranges upward from \$25 a year for a small manufacturer just beginning, to \$500 for a very large and successful concern. At a meeting on April 3 officers were elected as follows: J. C. Saunders, president, Bonham, Tex.; A. T. Clifton, of Waco, and E. A. DuBose, of San Antonio, vice-presidents; G. M. Knebel, of San Antonio, vice-president and general manager. The board of directors also includes L. J. Black, of Beaumont; J. Perry Burrus, of McKinney; Jules Dreyfus, of Eagle Lake;

H. W. Finck, G. G. Gayer, and I. M. McIlheny, all of San Antonio; Ralph C. Goeth, of Austin; J. E. Haviland, of Galveston; Walter Hogg, of Dallas; S. S. Lord of Fort Worth; P. H. Manire, of Marshall; W. B. Munson, Jr., of Denison; Eugene Nolte, of Seguin; I. A. Ogden, of New Braunfels; Clinton Phelps, of Sherman; Philip Weihausen of Yoakum, and J. W. Link of Houston.

**Large Order for Electric Meters.**

The Westinghouse Electric & Manufacturing Company's publicity department, East Pittsburgh, Pa., notes that the largest single order for meters ever placed in Cuba outside of the city of Havana has been awarded to the Westinghouse Electric International Company. It calls for 1125 meters, Type OA, 110 volts, and of different sizes to be used in the change from direct to alternating current in the system of the Cardenas Electric Light & Power Co. It is also remarked that the order was obtained in the face of severe competition with both American and European manufacturers.

**Change of Name Announced.**

The Traylor-Dewey Contracting Co., Allentown, Pa., announces that it was recently reincorporated under the name of the Ce-

ment-Gun Contracting Co., and under that name it will continue to specialize in the many types of construction and repair plain or reinforced concrete structures.

**JAN.—FEB., 1923 ISSUE  
JUST PUBLISHED**

**American Bank Reporter  
BLUE BOOK  
and ATTORNEY LIST  
Enlarged Annual Issue**

Contains a complete list of Banks, Bankers, Savings Banks and Trust Companies in the United States and Canada with names of Officers, Capital, Surplus, Undivided Profits, Loans, Deposits, Principal Correspondents, List of Foreign Banks, Banking Laws, Attorney List, Bank Directors, Bank Supply Section, and many other added features.

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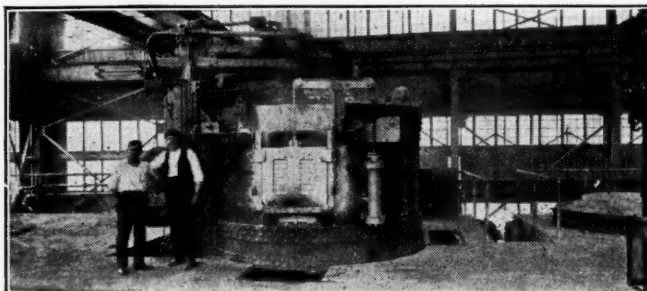
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Established Industrial  
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This organization is in no sense a banking institution and has no money to loan, but has ways of raising capital through established investment bankers, provided the proposition earns our endorsement.

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and Preparation of Proceedings relating thereto

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General Banking - Domestic and Foreign

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BALTIMORE

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President

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CITY  
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Little Rock, Ark.

# Excerpts From The Seventy-Second Annual Report of Louisville & Nashville Railroad Company

## Year Ended December 31, 1922

TABLE NO. I.  
INCOME ACCOUNT.

RAILWAY OPERATING INCOME—		
Railway Operating Revenues.....	\$121,138,840 08	
Railway Operating Expenses, 82.22 per cent..	99,604,496 32	
Net Revenue from Railway Operations, 17.78 per cent.....	21,534,343 76	
Railway Tax Accruals.....	\$4,710,247 14	
Uncollectible Railway Revenues.....	13,700 19	
Total Operating Income.....	4,723,947 33	
NON-OPERATING INCOME—	16,810,396 43	
Equipment Rents—		
Hire of Freight Cars—		
Credit Balance.....	\$1,274,826 80	
Rent from Locomotives...	35,974 70	
Rent from Passenger- Train Cars.....	97,836 88	
Rent from Work Equipment	8,433 24	
Joint Facility Rent Income..	1,417,071 62	
Income from Lease of Road—	301,892 36	
Clarksville & Princeton Branch .....	12,039 70	
Paducah & Memphis Division .....	206,506 20	
Marbleton Branch.....	2,000 00	
Miscellaneous Rent Income..	55,415 21	
Miscellaneous Non-operating Physical Property.....	185,314 49	
Dividend Income—		
Chicago, Indianapolis & Louisville Railway Stock	236,830 12	
Nashville, Chattanooga & St. Louis Railway Stock	803,887 00	
Sundry Stocks.....	21,265 00	
From stocks held under Georgia Railroad Lease	73,083 00	
Income from Funded Securities—		
Sundry bonds and notes maturing more than two years after date.....	270,618 32	

From bonds held under Georgia Railroad Lease	620 00	
Income from Unfunded Secur- ities and Accounts.....	930,910 99	
Income from Sinking Funds...	16,775 94	
Miscellaneous Income.....	12,141 05	
Total Non-Operating Income.....	2,827,407 02	4,546,371 00
GROSS INCOME.....		21,356,767 43
DEDUCTIONS FROM GROSS INCOME—		
Equipment Rents—		
Rent for Locomotives...	107,218 08	
Rent for Passenger-Train Cars .....	156,128 47	
Rent for Work Equipment	10,192 32	273,538 87
Joint Facility Rents.....		651,500 05
Rent for Leased Roads—		
Nashville & Decatur Rail- road .....	134,867 49	
Rents of other roads...	57,125 91	
Miscellaneous Rents.....	30,128 74	
Miscellaneous Tax Accruals...	19,722 80	
Interest on Funded Debt...	9,535,834 56	
Interest on Unfunded Debt..	14,307 40	
Miscellaneous Income Charges—		
Accrued premiums on bonds drawn for Sinking Funds	4,983 00	
U. S. Income Tax paid on Interest on Tax-Exempt Bonds .....	30,657 37	
Fees and Expenses Paid Mortgage Trustees, etc..	6,081 82	
Total Deductions from Gross Income.....	9,833,709 09	10,758,748 01
Net Income.....		10,598,019 42
DISPOSITION OF NET INCOME—		
Income applied to Sinking Funds.....	105,717 42	
Miscellaneous Appropriations of Income.....	65,167 33	
Total Appropriations.....		170,884 75
Income Balance Transferred to Credit of Profit and Loss.....		\$10,427,134 67

TABLE NO. III.  
GENERAL BALANCE SHEET.  
Assets.

Dr.		
INVESTMENTS:		
Investment in Road and Equipment—		
Road .....	\$244,398,161 56	
Equipment .....	94,553,722 75	
(Table VI).....	\$338,951,884 31	
Improvements on Leased Railway Property (Table VI).....	1,941,398 28	
Sinking Funds—		
Total Book Assets.....	2,203,941 21	
Bonds, this Company's Issue (Table V).....	1,766,000 00	
Deposits in Lieu of Mortgaged Property Sold	437,941 21	
Miscellaneous Physical Property.....	305,426 68	
Investments in Affiliated Companies.....	4,424,125 14	
(a) Stocks (Table V)....	18,386,013 40	
(b) Bonds (Table V)....	1,028,019 15	
(c) Notes .....	1,297,147 97	
(d) Advances .....	1,855,832 49	
Other Investments—	22,567,013 01	
(a) Stocks (Table V)....	2,237,359 07	
(b) Bonds (Table V)....	3,495,920 56	
(c) Notes .....	100,696 24	
CURRENT ASSETS:	5,833,975 87	
Cash .....	15,406,262 64	\$374,461,764 50
Time Drafts and Deposits.....	16,732,341 29	
Special Deposits—		
Total Book Assets.....	624,315 50	
Bonds, this Company's Issue (Table V).....	500,000 00	
Stock (Table V) .....	\$5 00	
Cash .....	124,310 50	
Loans and Bills Receivable.....	124,315 50	
Traffic and Car Service Balances Receivable..	71,938 10	
Net Balance Receivable from Agents and Conductors .....	2,073,195 96	
Miscellaneous Accounts Receivable.....	1,939,057 44	
Material and Supplies.....	3,009,900 24	
Interest and Dividends Receivable.....	12,860,406 53	
Rents Receivable.....	387,706 25	
Other Current Assets.....	74,855 25	
Due from United States Government—	437,620 94	
Federal Control Period.....		
Guaranty Period.....	2,181,061 69	
DEFERRED ASSETS:	55,298,661 83	
Working Fund Advances.....	55,134 73	
Other Deferred Assets—		
Southern Railway Company's Proportion of Bonds Issued Jointly .....	5,913,500 00	
Other Accounts.....	1,434,140 16	
UNADJUSTED DEBITS:	7,347,640 16	
Discount on Funded Debt.....		
Other Unadjusted Debits—		
United States Government—Material and Supplies, December 31, 1917.....		
Other Accounts.....	1,646,419 23	
Securities Issued or Assumed—Unpledged (Table V).....	1,646,419 23	
Securities Issued or Assumed—Pledged (Table V) .....	20,603,500 00	
CONTINGENT ASSETS:	18,329,000 00	
L. & N. Terminal Co. Fifty-year 4 per cent Gold Bonds outstanding, endorsed by Louis- ville & Nashville Railroad Company and Nashville, Chattanooga & St. Louis Railway	2,500,000 00	
Memphis Union Station Company First Mort- gage 5 per cent Gold Bonds, guaranteed by the Louisville & Nashville Railroad Company and other interested Railroad Companies..	2,500,000 00	
GRAND TOTAL.....	5,000,000 00	\$443,809,620 45

TABLE NO. III.  
GENERAL BALANCE SHEET.  
Liabilities

		Cr.
STOCKS:		
Capital Stock—		
Full shares outstanding...	\$71,917,200 00	
Fractional shares out- standing .....	720 00	
Original stock and sub- sequent stock dividends unissued .....	82,080 00	
Premium on Capital Stock.....	\$72,000,000 00	
GOVERNMENTAL GRANTS:	12,116 76	\$72,012,116 76
Grants in Aid of Construction.....		10,995 02
LONG TERM DEBT:		
Funded Debt—Unmatured—		
Book Liability.....	243,255,530 00	
Held by or for this Company (Table V)—		
In Treasury.....	20,603,500 00	
In Sinking Funds.....	1,766,000 00	
Deposited as Collateral...	18,329,000 00	
Special Deposit.....	500,000 00	
Actually outstanding (Table IV).....	41,198,500 00	
Liability of Southern Railway Company Bonds Issued Jointly with this Company	202,057,030 00	
CURRENT LIABILITIES:	5,913,500 00	207,970,530 00
Loans and Bills Payable.....		
Traffic and Car Service Balances Payable...	819,515 90	
Audited Accounts and Wages Payable.....	8,651,489 47	
Miscellaneous Accounts Payable.....	955,693 67	
Interest Matured, Unpaid.....	1,865,700 00	
Dividends Matured, Unpaid.....	143,878 50	
Funded Debt Matured, Unpaid (Table IV)...	93,000 00	
Unmatured Dividends Declared.....	2,520,000 00	
Unmatured Interest Accrued.....	1,625,633 83	
Unmatured Rents Accrued.....	9,584 82	
Other Current Liabilities.....	311,868 01	
DEFERRED LIABILITIES:	16,996,344 20	
Other Deferred Liabilities.....		50,406 35
UNADJUSTED CREDITS:		
Tax Liability.....	3,363,395 26	
Operating Reserves.....	4,336,479 64	
Accrued Depreciation—Road.....	13,111,397 61	
Accrued Depreciation—Equipment.....	33,969,759 55	
Accrued Depreciation—Miscellaneous Physical Property .....	489,379 42	
Other Unadjusted Credits—		
United States Government—Material and Sup- plies, February 29, 1920.....		
Other Accounts.....	4,497,989 37	
CORPORATE SURPLUS:	59,768,400 85	
Additions to Property through Income and Surplus .....	2,551,093 79	
Sinking Fund Reserves.....	1,211,861 58	
Appropriated Surplus not Specifically Invested	256,927 12	
Total Appropriated Surplus.....	4,019,882 49	
Profit and Loss—Balance.....	77,980,944 78	
CONTINGENT LIABILITIES:	82,000,827 27	
L. & N. Terminal Co. Fifty-year 4 per cent Gold Bonds outstanding, endorsed by Louis- ville & Nashville Railroad Company and Nashville, Chattanooga & St. Louis Railway	2,500,000 00	
Memphis Union Station Company First Mort- gage 5 per cent Gold Bonds guaranteed by the Louisville & Nashville Railroad Company and other interested Railroad Companies..	2,500,000 00	
GRAND TOTAL.....	5,000,000 00	\$443,809,620 45

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## PROPOSALS

BOND ISSUES

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GOOD ROADS

Bids close May 11, 1923.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., April 12, 1923. SEALED PROPOSALS will be opened in this office at 3 p. m., May 11, 1923 for construction of Medical Officer's quarters for the United States Marine Hospital at Mobile, Ala. Drawings and specifications may be obtained from the Custodian at Mobile, Ala., or at this office in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close May 9, 1923.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 13, 1923. SEALED PROPOSALS will be opened in this office at 3 p. m., May 9, 1923, for fire-escapes at the U. S. Marine Hospital, Louisville, Ky. Drawings and specifications may be obtained from the Custodian at the building, or at this office, in the discretion of the Supervising Architect, JAS. A. WETMORE, Acting Supervising Architect.

Bids close May 4, 1923.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 4, 1923.—SEALED PROPOSALS will be opened in this office at 3 p. m., May 4, 1923, for a toilet room in the United States Post Office, High Point, N. C., in accordance with specification and drawing, copies of which may be had at this office, or at the office of the Custodian, High Point, N. C., in the discretion of the Supervising Architect, JAS. A. WETMORE, Acting Supervising Architect.

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The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.  
The same rate applies—35 cents per line per insertion.

Bids close May 14, 1923.

TREASURY DEPARTMENT, Bureau of Engraving and Printing, Washington, D. C., April 2, 1923. Sealed proposals are invited to furnish this Bureau with Postage Stamp Paper and Internal Revenue Paper. Brass and Iron Castings, Cleaning of Windows, Purchase of Pulp, Ink Scrapings, Distinctive Paper Shredded Trimmings and Postage Stamp and Internal Revenue Paper Trimmings, during the fiscal year beginning July 1, 1923. Proposals to be received not later than 2 P. M., Monday, May 14, 1923. Blank forms with specifications for proposals for the several schedules and further information will be furnished on application to Louis A. Hill, Director.

Bids close April 23, 1923.

PROPOSALS FOR MISCELLANEOUS SUPPLIES.—Office, Mississippi River Commission, 1st and 2nd Districts, Customhouse, Memphis, Tenn.—Sealed proposals will be received here until 11 a. m., April 23, 1923, and then opened, for furnishing and delivering steel bars, wire fencing, machine bolts and insulating paper. Further information on application.

Bids close May 1, 1923.

PROPOSALS for steel pinions, rowboats, push carts, hydrotherapeutic apparatus and other hospital installations, steel rope, phosphor bronze rope, special bronze, manila rope, copper sheathing, sheet lead, hose, tires, rubber tubing, packing, twine, asbestos gaskets, poultry netting and wire cloth, wire lath, horsehide and asbestos gloves, storage batteries, hacksaw blades, padlocks, steel lockers, water buckets, garbage cans, gasoline torches, copper tacks, street brooms, paints and varnishes, liquid coal tar, petroleum spirits, brushes, pencils, penholders, pens, paper, mimeograph stencil paper, paper towels, ash cans, and lumber.—Sealed proposals will be received at the office of the General Purchasing Officer, The Panama Canal, Washington, D. C., until 10.30 o'clock a. m., May 1, 1923, at which time they will be opened in public, for furnishing the above-mentioned articles. Blanks and information relating to this Circular (1522) may be obtained from this office or the offices of the Assistant Purchasing Agents, 24 State Street, New York City; 611 Gravier Street, New Orleans, La.; and Fort Mason, San Francisco, Calif.; also from the principal cities throughout the United States.—A. L. FLINT, General Purchasing Officer.

Bids close April 27, 1923.

UNITED STATES ENGINEER OFFICE, Florence, Alabama. Sealed proposals will be received here until 11 a. m., April 27, 1923 and then opened, for furnishing and installing four steam boilers, with fittings, stacks, etc., on U. S. towboat Gen. John Coffee, at Florence, Ala. Further information on application.

Bids close April 30, 1923.

U. S. ENGINEER OFFICE, BALTIMORE, MD.—Sealed proposals will be received here until 1 P. M., April 30, 1923 and then opened for dredging in Claiborne Harbor, Md. Further information on application.

Bids close April 30, 1923.

U. S. ENGINEER OFFICE, JACKSONVILLE, FLA.—Sealed proposals will be received here for 12 m., April 30, 1923, and then opened for constructing and delivering 3 steel barges, 80 ft. x 26 ft. x 5 ft. for the dredge Major J. C. MALLERY. Further information on application.

**\$12,000 Drainage Bonds.**

Statesville, N. C.  
For Sale \$12,000 Upper Third Creek Drainage District Bonds.

W. A. BRISTOL,  
Attorney for District.

Bids close April 23, 1923.

**\$75,000 6% 30-Year Bonds**

Galax, Va.  
Sealed bids will be received until 11 A. M. on the 23rd day of April, 1923, at the office of City Manager of Galax, Va. for \$75,000.00, 6% 30 year bonds. \$50,000.00 permanent street improvement bonds and \$25,000.00 water and sewer bonds.

Coupon bonds to be dated May 1st, 1923 and mature May 1st, 1953, interest payable semi-annually May 1st and Nov. 1st.  
The right to reject any or all bids is reserved.

For further information apply to  
I. G. VASS, City Manager,

Bids close May 3, 1923.

**\$50,000 Road and Bridge Bonds**

Boone, N. C.  
Proposals will be received by the Board of Commissioners of Watauga County, North Carolina, at the courthouse in Boone on May 3, 1923, at noon, for the purchase of \$50,000 Road and Bridge Bonds of the said County, dated May 1, 1923, and maturing May 1, 1943, denomination \$1000 each, bearing interest at the rate of five and one-half per centum per annum payable semi-annually, both principal and interest payable at the United States Mortgage & Trust Company in the city of New York.

Bids must be accompanied by certified check upon an incorporated bank or trust company for two per centum of the face amount of the bonds bid for, to secure the municipality against any loss resulting from the failure of the bidder to comply with the terms of his bid. No bid of less than par and accrued interest will be received. The right to reject any or all bids is reserved.

L. A. GREENE, Chairman.

Bids close May 7, 1923.

**Street Paving**

Arcadia, La.  
Bids will be received up to 10.00 A. M., May 7, 1923, by the Board of Selectmen of the Town of Arcadia, La., for the paving with reinforced concrete a portion of Railroad Avenue North, Hazel, Myrtle and Maple Streets in the Town of Arcadia, La. The approximate quantities are as follows:

2045.00 cu. yds. of earth excavation.  
60.00 cu. yds. of earth borrow.  
10,385.00 sq. yds. of 6" reinforced concrete.  
3315.00 Lin. ft. of plain curb.  
5000.00 Lin. ft. of 1½" Elastice.  
310.00 Lin. ft. of 18" D. S. V. C. pipe.  
780.00 Lin. ft. of 24" D. S. V. C. pipe.  
9.00 Manholes complete with cover and ring.  
5.00 Catch basins complete with castings.

Plans and specifications may be secured by a deposit of \$5.00 from James W. Billingsley, Consulting Engineer, 700 Interstate Bank Bldg., New Orleans, La., or Clerk of the Town of Arcadia. The Board of Selectmen reserve the right to reject any or all bids.

By order of the Board of Selectmen.  
BERTRAM BARNETTE,  
Mayor.

Bids close May 15, 1923.

**Street Improvements**

St. Petersburg, Fla.  
Sealed proposals will be received by the Director of Finance of the City of St. Petersburg, Fla., until 7:30 P. M., May 15, 1923 for building about 468,000 sq. yds. of No. 1 brick pavements and 37,000 sq. yds. of No. 2 brick pavements or 466,000 sq. yds. of Asphalt block, asphaltic concrete, sheet asphalt or Willite Process pavements and 39,000 sq. yds. of No. 1 brick pavements with about 357,000 lin. ft. of granite or concrete curbing and 103,000 cu. yds. of excavation.

The City reserves the right to reject any and all bids.

Further information on application.  
DIRECTOR OF FINANCE.

Bids close May 1, 1923.

**Paving Construction**

Miami, Fla.  
Sealed proposals will be received by "The Commission of the City of Miami, Florida," at the City Hall in Miami, Florida, until 9.30 a. m., at the regular meeting of the Commission, Tuesday, May 1, 1923, for the construction of bituminous macadam paving.

The work will consist of approximately 158,268 square yards of bituminous macadam paving and will be divided into two contracts. The bidder can bid on any or all of these contracts.

The improvements are to be constructed and payment therefor is to be made under Section 56 of the City Charter.

All bids must be upon blank forms provided in the proposal, specifications and contract.

Each bid must be accompanied by a certified check for 2½ per cent of the amount of the bid to insure the execution of the contract as provided by Section 56 of the City Charter.

The City reserves the right to reject any or all bids.

Plans and specifications will be on file at the City Hall in the office of the City Manager.

Copies of proposals, specifications and contract can be obtained from the office of Chas. W. Murray, Director of Public Service, on deposit of \$10.00, which will be refunded to those who submit bona fide bids.

F. H. WHARTON,  
City Manager.

Bids close May 1, 1923.

**Road Construction**

STATE OF MARYLAND  
STATE ROADS COMMISSION  
NOTICE TO CONTRACTORS

Baltimore, Md.  
SEALED PROPOSALS for building five sections of State Highway, as follows:

Washington Co. Cont. W-24. One section of State Highway from Hagerstown to Smithburg, for a distance of 7.8 miles. (Macadam Reconst.)

Baltimore County. Cont. B-55. One section of State Highway from Mt. Carmel to Blackrock, for a distance of 2.2 miles. (Concrete.)

Baltimore City. Cont. BC-45. One section of State Highway along Madison Ave. from Madison Street to Druid Hill Park, for a distance of 1.52 miles. (Sheet Asphalt.)

Prince George Co. Cont. P-36. One section of State Highway from Oxen Hill toward Shlesia, for a distance of 1.92 miles. (Gravel.)

Wicomico County. Cont. WI-24. One section of State Highway along Church Street, Salisbury, and from Moores Corner to Fruitland, for a distance of 1.36 miles. (Concrete.)

Will be received by the State Roads Commission, at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 1st day of May, 1923, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form which with specifications and plans will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 12th day of April, 1923.

JOHN N. MACKALL, Chairman.  
L. H. STEUART, Secretary.

Bids close May 1, 1923.

**Paving Construction**

Miami, Fla.

Sealed proposals will be received by "The Commission of the City of Miami, Florida," at the City Hall in Miami, Florida, until 9.30 a. m., at the regular meeting of the Commission, Tuesday, May 1, 1923, for the construction of Sheet Asphalt Paving.

The work will consist of approximately 75,887 square yards of sheet asphalt paving and will be divided into one contract. The bidder can bid on any or all of these contracts.

The improvements are to be constructed and payment therefor is to be made under Section 56 of the City Charter.

All bids must be upon blank forms provided in the proposal, specifications and contract.

Each bid must be accompanied by a certified check for 2½ per cent of the amount of the bid to insure the execution of the contract as provided by Section 56 of the City Charter.

The City reserves the right to reject any or all bids.

Plans and specifications will be on file at the City Hall in the office of the City Manager.

Copies of proposals, specifications and contract can be obtained from the office of Chas. W. Murray, Director of Public Service, on deposit of \$10.00, which will be refunded to those who submit bona fide bids.

F. H. WHARTON,  
City Manager.

Bids close April 23, 1923.

**Grading, Draining and Paving**

Sanford, Fla.

Sealed proposals will be received by the City Commission of Sanford, Florida at their office in the City Hall, at or before 3 P. M. April 23, 1923 for grading, draining and paving the following streets, to wit:

Second Street from Oak to French .....	3635 sq. yds.
Third Street from Sanford to Magnolia and from Oak to Avocado .....	10371 " "
Avocado Avenue from First St. to Third St. ....	1168 " "
Fifth Street from Magnolia to Myrtle .....	2229 " "
Ninth Street from Cypress to Park .....	2732 " "
Thirteenth Street from Sanford to French .....	6679 " "
Central Street from Sanford to French .....	6357 " "
Palmetto Avenue from Central to Hughey .....	1493 " "
Palmetto Avenue from Commercial St. to Lake Monroe .....	1935 " "
Oak Avenue from Tenth St. to Thirteenth St. ....	3454 " "
Laurel Avenue from Sixth St. to Thirteenth St. ....	4460 " "

Bids will be received on the following types of pavement, Sheet Asphalt, Asphalt Concrete, Asphalt Block and Vitri-fied Brick.

Proposal to be presented in a sealed envelope, endorsed on the outside "Bid for Paving," Sanford, Florida, and the name of the bidder or bidders.

Each proposal must be accompanied by a certified check, made payable at sight, to the order of the City Auditor and Clerk, of Sanford, Florida, for 3 per cent of the amount of their bid.

The successful bidder or bidders will be required to give a bond equal to 50 per cent of his or their bid, and such bond to be executed by a surety company licensed to do business in the State of Florida, said bond to be approved by the City Commission.

Copies of the plans and specifications may be seen at the office of the City Manager, or at the office of Fred T. Williams, Engineer. Specifications may be obtained at either office on deposit of \$10.00 which will be returned if a bid is made.

The City Commissioners reserve the right to reject any, or all bids, or to accept any bid they deem to be for the best interest of the City.

W. B. WILLIAMS, City Manager.

Bids close May 7, 1923.

### Road Improvements

Tavares, Fla.

Sealed proposals will be received by the Board of County Commissioners, Lake County, Florida, at Tavares, in the County Court House up to 12 o'clock M. on the 7th day of May, 1923, and at that time publicly opened, for the Grading, Drainage and Surfacing with Sand Clay Section "B," a section of Road No. 1, in South Lake County Special Road and Bridge District, of Lake County, Florida, between the North Boundary of the Town of Howey and the Leesburg-Mascotte Road via Yalaha, being approximately 6.1 miles in length, as shown on Plat No. 1 S-L.

Specifications may be obtained on application to the County Engineer, at Tavares, Florida, for the sum of \$1.00, and plans may be examined at the office of the County Engineer, Tavares, Florida.

The right is reserved to reject any or all proposals.

GEO. E. HELLER,  
County Engineer.

T. C. SMYTH,  
County Clerk.

M. V. SIMPSON,  
Chairman Board County Commissioners.

Bids close May 7, 1923.

### Road Improvements

Tavares, Fla.

Sealed proposals will be received by the Board of County Commissioners, Lake County, Florida, at Tavares, in the County Court House up to 12 o'clock M. on the 7th day of May, 1923, and at that time publicly opened, for the Grading, Drainage and Surfacing with Sand Clay of Road Projects No's. 4-5-6-7-8-9-10-11-12 and 13, inclusive, aggregating approximately 38 miles in length and located in South Lake County Special Road and Bridge District, of Lake County, Florida.

Specifications may be obtained on application to the County Engineer, at Tavares, Florida, for the sum of \$1.00, and plans may be examined at the office of the County Engineer, Tavares, Florida.

The right is reserved to reject any or all proposals.

GEO. E. HELLER,  
County Engineer.

T. C. SMYTH,  
County Clerk.

M. V. SIMPSON,  
Chairman Board County Commissioners.

Bids close April 30, 1923.

### Street Paving

Norfolk, Va.

Sealed proposals will be received at the office of the Director of Public Works until 12 o'clock noon of the 30th day of April, 1923 for paving certain streets, or parts thereof, aggregating 1630 lin. ft. granite curb reset, 7665 ft. new granite curb furnished and set, 48 sets granite corners furnished and set, 18400 lin. ft. combined concrete curb and gutter, 76 sets combined concrete corners and gutter, 2217 lin. ft. concrete headers, 83999 sq. yds. grade and concrete base, 83999 sq. yds. asphalt surface including binder and top, and 1220 sq. yds. concrete paving, together with all incidental work pertaining thereto.

A complete schedule of the work, specifications and proposal blanks can be had at the office of the Director of Public Works. Bids must be made on the proposal blank, sealed and addressed to Walter H. Taylor, 3rd, Director of Public Works, marked "Paving Proposals, Project No. 1, April 30, 1923."

A certified check on some local bank in the sum of Two Thousand Dollars (\$2,000.00), payable to B. Gray Tunstall, City Treasurer, must accompany each bid upon the conditions expressed in the proposal.

The City of Norfolk especially reserves the right to award contracts by item as set out below, by combination of items, or for the items as a whole, or to reject any or all bids for any item, combination of items or for all of the items.

Item 1. Includes the resetting of granite curb, and the furnishing and setting of new granite curb and corners.

Item 2. Includes the combined concrete curb and gutter and the combined concrete corners and gutters.

Item 3. Includes the grading and concrete base.

Item 4. Includes the binder and asphalt top.

CHAS. E. ASHBURNER,  
City Manager.

WALTER H. TAYLOR, 3rd,  
Director of Public Works.

Bids close May 10, 1923.

### Road Improvement

Elizabethton, Tenn.

Sealed bids will be received by the State Line Road Commission of Carter County, Tenn. at their office in the Court House on the 10th day of May, 1923, for the drainage, grading and hard surfacing of approximately 25 miles of what is known as the STATE LINE ROAD, or that part the Commission thinks advisable.

The right is reserved to reject any and all bids.

By order of the Commission,  
FRANK A. TAYLOR, Chairman.

Bids close April 26, 1923.

### Paving, Sewers and Sea Wall

Biloxi, Miss.

Sealed bids for furnishing materials and constructing street pavements and sewers on certain streets and the Beach Front and for a sea wall as shown by the plans and specifications on file with the City Clerk, will be received until 10 A. M. Thursday, April 26th, 1923, by the Mayor and Commissioners of the City of Biloxi, Mississippi, at which time they will be publicly opened and read.

Bids must be accompanied by a deposit of a certified check or bidder's bond in the amount at least three per cent of the total amount of the bid.

Plans and specifications on file in the office of the Clerk and Engineer. All usual rights reserved.

J. J. KENNEDY, Mayor.  
M. L. MICHEL, City Clerk.  
MESSENA L. CULLEY,  
Consulting Engineer,  
Jackson, Miss.

Bids close May 15, 1923.

### Storm Water Drains

St. Petersburg, Fla.

Sealed proposals for the construction of Storm Water Drains, will be received at the office of the Director of Finance of the City of St. Petersburg, Florida, until 7:30 P. M., May 15, 1923.

Approximately 67,939 feet of 10" to 84" pipe and all inlets, manholes and special structures.

Plans and specifications may be obtained from the Director of Finance upon the deposit of ten dollars (\$10.00) to secure the return of same in good condition within thirty days.

Bidders must accompany their proposal with a certified check payable to the Director of Finance for not less than 5% of their bid price.

The City reserves the right to reject any or all bids and to waive any or all technicalities in awarding contract.

H. T. DAVIS,  
Director of Finance.

Bids close May 15, 1923.

### Sewer Construction

St. Petersburg, Fla.

Sealed proposals for the construction of Sanitary Sewers, located in 1st Alley South and 1st Alley North from 1st Street to 8th Street and 2nd Alley North from 1st Street to 6th Street, will be received at the office of the Director of Finance until 7:30 P. M., May 15, 1923.

Approximately 8025 feet of 12" pipe and 1643 feet of 10" pipe, 28 manholes.

Plans and specifications may be obtained from the Director of Finance.

Bidders must accompany their proposal with a certified check payable to the Director of Finance for not less than 5% of their bid price.

The City reserves the right to reject any or all bids and to waive any or all technicalities in awarding contract.

H. T. DAVIS,  
Director of Finance.

Bids close May 3, 1923.

### Paving and Sewers

Mobile, Ala.

Sealed bids will be received by the Commissioners of the City of Mobile, Alabama, until noon, Thursday, May 3rd, 1923 for the following:

One Course six inches in depth Concrete Paving (including grading), approximately 3390 Sq. Yds.; 5 inches by 18 inches Concrete Curbing, approximately 1827 Linear Ft.

Asphaltic Concrete Paving—One and half inch surface on Four inches of Concrete (including grading), approximately 11,510 Sq. Yds.; 5x18 inches Concrete Curbing, approximately 4720 Lin. Ft.

Sheet Asphalt Pavement—One and half inch surface on one and half inch binder upon Four inches Concrete base (including

grading), approximately 4953 Square Yards; 5x18 inches Concrete Curbing, approximately 3553 Lin. Ft.

Storm Sewers—Vitrified or Concrete Pipe, approximately—6 inch pipe—300 Lin. Ft.  
10 inch pipe 1110 Lin. Ft.  
12 inch pipe 3037 Lin. Ft.  
15 inch pipe 2663 Lin. Ft.  
18 inch pipe 1932 Lin. Ft.  
21 inch pipe 250 Lin. Ft.

Manholes ..... 26  
Inlets ..... 75  
Special Basins ..... 19

Plans and specifications can be seen at the City Engineers Office.  
The right is reserved to reject any or all bids.

R. V. TAYLOR, Mayor.  
WRIGHT SMITH, City Engineer.

Bids close May 14, 1923.

### Water Works

Crescent City, Fla.

Sealed proposals will be received by the Board of Bond Trustees of the Town of Crescent City, Florida, until 6 P. M., May 14, 1923, for the construction of a water-works system. The work will embrace the following, flowing wells, storage reservoir, motor driven pumps, elevated tank, and distribution system, etc.

Plans and specifications are on file with the Town clerk and at the office of the Engineer from either of which they may be procured by depositing Fifteen (\$15.) Dollars one-half of which deposit is refundable. The right is reserved to reject any and all bids.

C. H. PRESTON, Chairman of  
Bond Trustees.  
C. M. AUSTIN, Town Clerk.  
GEORGE A. MAIN, Engineer,  
Daytona, Fla.

Bids close April 25, 1923.

### Mechanical Filtration Plant

Culpeper, Va.

Bids are invited until 7 o'clock, p. m., Wednesday, April 25, by the Water Committee of the Town of Culpeper, Virginia, on furnishing all materials, machinery and appliances, as well as labor, and constructing a mechanical filtration plant, capacity 1,000,000 gallons per day, for the municipal water works of said town, the same to include:

A small concrete dam on Mountain Run, with Intake Crib.

12" raw water pipe line, partly cast iron, and partly v. c.

Reinforced concrete pumping well.

Reinforced concrete coagulation basin.

Reinforced concrete and brick filter building.

All filtering equipment, regulating devices, etc.

Two 350 g. p. m. centrifugal pumps, with D. C. motors.

8" cast iron clear water pipe line.

4" feed line to tank and 10" wash line, both cast iron.

15" v. c. main drain, and also minor drains, with manhole.

30,000 gallon, hemispherical bottom steel wash tower, 39 feet high.

Concrete foundation for the above.

Bids will be received upon the work as a whole, or in parts.

A certified check, cashier's check or bidder's bond, in a sum equal to the next even \$100 above 5% of the bid, will be required at the time of bidding, as a guarantee that contract will be entered upon, and indemnity bond filed promptly after the award.

Failure of a bidder to enter upon contract, if awarded to him, or to execute a satisfactory indemnity bond promptly, will cause the said check or bidders' bond to become a forfeit to the Town of Culpeper, Va.

The successful bidder will be required to execute an indemnity bond, made by some satisfactory guaranty company, in a sum equal to the next even \$100 above one-third the face of the bid.

The right is reserved to reject any or all of the bids.

Detailed plans and specifications may be examined at the office of Mr. R. F. Booton, Chm. Water Comm., Culpeper, Va.

Parties engaged in the business of contracting, alone, may obtain a set of the plans and specifications from Mr. Booton only, by mailing him a check for \$10.

This check will be returned only to those bidders who submit bona fide bids, before the above time limit, and who return the plans and specifications in good order.

R. F. BOOTON, Chairman,  
Water Committee,  
The Ambler Engineering Co.,  
Old Dominion Trust Co. Bldg.,  
Richmond, Virginia.

Bids close April 26, 1923.

**Water-Works Improvements**

Lenoir, N. C.

Sealed proposals will be received by the Town Board of Alderman of Lenoir, North Carolina, at the Mayor's Office, until 2:00 P. M., Thursday, April 26th, 1923, for constructing a 35 foot concrete arch dam and laying 20,200 feet of 12" pipe line, at which time all bids will be publicly opened and read.

The work will consist of the following approximate quantities:

1000 Cu. Yds. of rock excavation.  
1000 Cu. Yds. of earth excavation.  
1400 Cu. Yds. of 1:2:4 concrete.  
Laying 20,200 lineal feet of 12" C. I. Pipe.

All bids must be upon blank forms provided in the Proposal and Contract forms furnished with the Specifications.

Plans and Specifications will be on file at the offices of the Mayor of Lenoir, North Carolina, and may be obtained from the Engineers in Charlotte, North Carolina, after April 18th, 1923.

A deposit of \$10.00 will be required by the Engineers for each set of Plans and Specifications, which deposit will be refunded to bona fide bidders upon the return of the Plans and Specifications in good condition.

Each bid must be accompanied by a properly certified check or bid bond for three thousand (\$3000) dollars, made payable to J. T. Pritchett, Town Treasurer.

The right is reserved to reject any or all bids or to accept such bid as may be deemed advisable by the town authorities.

V. D. GUIRE,  
Mayor.  
J. T. PRITCHETT,  
Clerk and Treas.

MEES & MEES,  
Consulting Engineers,  
Charlotte, N. C.

Bids close May 1, 1923.

**School Building**

Heath Springs, S. C.

Sealed proposals will be received by the Board of Trustees, Heath Springs Schools, Heath Springs, S. C., on May 1, 1923 at 11 A. M., for the erection and completion of a School Building in the town of Heath Springs, S. C.

Plans and specifications may be seen at the offices of the architects, Wilson & Berryman, 804-809 Palmetto Building, Columbia, S. C., also in the offices of

The Builders Exchange, Columbia, S. C.  
The Builders Exchange, Atlanta, Ga.  
The Chamber of Commerce, Charlotte, N. C.

The Chamber of Commerce, Greensboro, N. C., and may be secured from the architects in Columbia, S. C. upon deposit of Fifteen (\$15.00) Dollars, as a guarantee that the plans and specifications will be returned in good condition and without expense with-

in five (5) days of the date set for the submission of bids, and that a bona fide bid will be made. When the above conditions are complied with the deposit will be refunded, otherwise it will be retained by the architects.

Sub-contractors and material men may secure such portions of plans and specifications as they may desire at current blue print rates.

A certified check in the sum of Seven Hundred (\$700.00) Dollars will be required; successful contractor to furnish bond for full amount of contract.

The right is reserved to reject any or all bids.

Bids close May 1, 1923.

**Church Building**

McComb, Miss., March 27th, 1923.

The First Baptist Church, McComb, Mississippi will open bids for the erection of a Church Building, to cost approximately \$50,000 to \$60,000, at the Pastor's Study at 10 o'clock A. M., May 1st, 1923. Plans can be had at the office of the Architect, Eugene McCormick, Brookhaven, Mississippi, on deposit of certified check for \$25.00.

W. F. HOLMES, Chairman,  
Building Committee.

Bids close June 1, 1923.

**Dormitory**

AT GLENNVILLE STATE NORMAL SCHOOL, GLENNVILLE, W. VA.

Sealed proposals will be received by the State Board of Control, at its office in Charleston, W. Va., until 4:00 P. M., June 1st, 1923, for doing all work and furnishing all materials necessary to complete the building described below, according to plans and specifications of Theodore T. Sansbury, Architect, Parkersburg, W. Va.

The building is to be 45 ft. x 132 ft., fireproof in certain parts, wood construction otherwise, brick exterior walls, concrete foundation walls faced with stone above grade, and slate roof.

Face brick will be local burned common brick. We have contracted for the burning of these brick at a price of \$20.00 per thousand in kiln yard, which is about three-fourths of a mile from site of the proposed dormitory. Brick will be ready about July 1.

Cut stone will be Indiana Limestone. The flooring for porches and toilet rooms, electric and gas lighting, plumbing and steam heating, ash hoist and hand power trunk lift. Interior stairs iron with slate treads, exterior stairs concrete. Interior partitions brick and solid plaster, interior finish oak, and oak flooring.

Plans, specifications and blank form for bids will be mailed by the State Board of Control when request is accompanied with check of \$10.00, which amount will be refunded on receipt of bona-fide bid on or before time named above, and proposal bond properly filed out, and return of plans.

State Board of Control,  
By JAMES S. LAKIN, Prest.,  
Charleston, W. Va.

Bids close June 1, 1923.

**Hall of Chemistry**

AT WEST VIRGINIA UNIVERSITY, MORGANTOWN, W. Va.

Sealed proposals will be received by the STATE BOARD OF CONTROL at its office in Charleston, West Virginia, until 3:00 P. M., Friday, June 1st, 1923, for doing all work and furnishing all material necessary to complete the building described below, according to the plans and specifications prepared therefor by PAUL A. DAVIS, 3rd. & Dunlap, Architects, Philadelphia, Pa.

The building is to be 305' 7" x 79' 0", four stories, with basement and attic, with extension of one story and basement. Fire-proof construction except main roof, which is steel, wood and slate. Exterior of face brick with granite base, Indiana Limestone face first story, and Indiana Limestone trimmings above. Interior brick finished walls. Concrete ceilings. Interior wood finish of oak. Interior partitions brick and tile. Stairs iron. Entrance vestibule marble and plaster. Floors of terrazzo, marble, tile, composition, cement and asphalt. Wrought iron railings. Electric elevator and lift.

Plans and specifications, blank form for bids and blank form of proposal bond will be mailed by the State Board of Control when request for plans is accompanied with check for \$25.00, which amount will be refunded on receipt of bona-fide bid on or before time named above and proposal bond properly filled out and return of plans.

State Board of Control,  
By JAMES S. LAKIN, Prest.,  
Charleston, W. Va.

Bids close May 15, 1923.

**Paving Materials**

St. Petersburg, Fla.

Sealed proposals will be received by the Director of Finance of the City of St. Petersburg, Fla., until 7:30 P. M., May 15, 1923 for purchasing No. 1 brick for about 468,000 sq. yds. of pavements and No. 2 brick for about 37,000 sq. yds. of pavements or for furnishing asphalt block for about 466,000 sq. yds. of pavements and No. 1 brick for about 39,000 sq. yds. of pavements and for furnishing about 357,000 lin. ft. of concrete or granite curbing and headers and about 1,000,000 lbs. of asphalt filler.

The City reserves the right to reject any and all bids.

Further information on application.  
DIRECTOR OF FINANCE.

Bids close May 14, 1923.

**Electric Light Unit**

Crescent City, Fla.

Sealed proposals will be received by the Board of Bond Trustees of the Town of Crescent City, Florida, until 6 P. M., May 14, 1923, for the installation of a 100 horse power Diesel or semi-Diesel engine, an A. C. generator for direct connection to above engine together with exciter and switchboards.

Specifications are on file with the Town Clerk from whom they may be procured.

C. H. PRESTON, Chairman,  
Bond Trustees.  
C. M. AUSTIN, Town Clerk.



## CLASSIFIED OPPORTUNITIES

**MINERAL AND TIMBER LANDS WATER POWERS, MISCELLANEOUS PROPERTIES**

FOR SALE. Good water power on little river Montgomery County, N. C. Will develop 800 H. P. Will sell at a reasonable price for cash. All power can be sold immediately right at the plant, local capital can be raised to build a cotton mill to utilize all this power. Reliable engineers estimate shows this to be a valuable power site. Address F. P. Covington, Box 115, Mt. Gilead, N. C.

FOR SALE or LEASE. A mountain of Granite, 12 miles west of Greenville, S. C., short distance main line Sou. Ry. near Easley and close to Pickens Ry. For particulars write Geo H. Hendricks, Easley, S. C.

**RATES AND CONDITIONS**

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c. per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

**MINERAL AND TIMBER LAND**

FOR SALE—CEMENT LAND. A body of land situated on the Tombigbee River, and Southern Railway four miles from Demopolis, Ala., containing great quantity fine cement rock. An ideal location for Cement Plant. Good transportation facilities and cheap rates. C. J. Wise, York, Alabama.

**MANGANESE PROPERTY****MANGANESE ORE LAND.**

2300 acres in Birmingham district. Analysis 42 to 61%. Tonnage unlimited. Also much iron ore, and limestone. W. Carnot Holt, Montgomery, Ala.

**OIL LAND**

ALL SOUTHERN ARKANSAS is potential oil land. I am in position to pick up rare bargains in lands thru foreclosures and forced sales. If you are looking for cinch investments write W. A. Moffatt, Abstracter of Land Titles, Monticello, Ark.

COAL LANDS AND MINES

"FOR SALE—A REAL PROPOSITION, for a wide awake Coal Operator, 5600 acres of West Va., Coking Coal—in one body—accessible to Trunk Line Railroad—a dandy operating property. \$200. per acre will buy it if acted on quickly. For particulars address P. O. Box 606, Clarksburg, West Va.

ALABAMA COAL AND TIMBER LANDS.

Now is the time to buy Alabama Coal and Timber Lands. I can sell from 1000, to 20,000 acres of Coal Lands. 1,000,000 to 200,000,000 feet of High Class Timber. Let me know your wants. I can supply them. T. S. Smith, 1015, First National Bank, Birmingham, Ala.

TIMBER AND TIMBER LANDS

FOR SALE: Twenty-five to forty million ft. hardwood timber in Southern Mississippi. Good logging and shipping conditions. For further information wire or write R. E. Boggs, 1315 Jefferson Co. Bank Bldg., Birmingham, Ala.

FARM AND TIMBER LAND

FLORIDA—Timber, Colonization and Fruitland tracts any size; best in Florida. MAURER & COMPANY, Orlando, Fla.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FLORIDA—National statistics show that FLORIDA is developing faster than any other State in the Union. It is indeed a land of great resources and opportunities—the playground of the Rich; the Paradise of the Poor. Babson, the great business statistician, says that Tampa is destined to be the greatest city in the Southeast. Come and be one of us. Send for Booklet, Largest Orange Tree in the world, and list of Homes, groves and farms. Tampa-West Coast Realty Co., (Inc.) Opposite Post Office, "Since before the War," Tampa, Fla.

GEORGIA

400 ACRES—Suited for sub-division, apple, farming. Near National Forest Reserve. Joins Girls Industrial School. A rare chance. Also 800 acres timber. Johnson Bank, Blue Ridge, Ga.

SOUTH CAROLINA

Truck farms that pay dividends annually can be bought at reasonable prices here. Vegetables are shipped eight months in the year. Three and four crops are grown on the same land annually. Excellent climate and health. Plenty of labor; strikes unknown. Well organized association that sells all farm products. For particulars write, Lake Realty Company, Beaufort, S. C.

VIRGINIA

109 ACRE Highly Improved Virginia Farm, especially adapted to hogs and dairying, ideally located just outside good town. A-1 investment and a resourceful farm. On account of other business will sell at a bargain for immediate possession. For further information, if interested, write Owner, Box 67, Clarksville, Va.

RESORT SITE

LAKE AND RESORT SITE.

600 acres. Ideal location for Lake, Hotel and Camps. A rare opportunity to get into this famous resort section of western North Carolina. Will sell for \$25 acre. Lease it or let you develop it on shares. Z. A. Nicholson, East Flat Rock, N. C.

BUSINESS OPPORTUNITIES

FAMOUS COHUTTA SPRINGS, 20 room hotel, mountains of fine green Slate, 320 acres land, one million feet of timber. One mile to station, good road. \$20,000 buys it. Terms.

HOTEL KEFAVNER, thirty rooms, up-to-date, in every way; a splendid money making proposition, cost \$50,000 to build. \$35,000 buys it. Terms. Write John Kimbro, Madisonville, Tenn.

Baltimore Business Address and telephone. Prompt and efficient branch office service. \$5 monthly. Manufacturers Representing Company, 204 Phoenix Bldg., Balto., Md.

BUSINESS OPPORTUNITIES

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,  
Harlow Building, Colorado Building,  
Alexandria, Va. Washington, D. C.

CAPITAL WANTED to develop Gravel and Sand bed of Two Hundred and Fifty acres, ample supply of water, adjacent to Railroad. Liberal terms. Invite investigation. J. J. Matheson, Bennettsville, S. C.

FIREPROOF and insulating building products can be made from sawdust and waste wood, waste paper, cinders, etc. by my process. Product time tested and results can be guaranteed, it is cheap and the equipment is cheap and simple, suitable for brick, blocks, partition tile, roof decking, stucco backing and cold storage insulation. For samples and particulars address E. R. Stowell, Portland, Indiana.

PADDED PAYROLLS.

Are you satisfied your payroll's are honestly and efficiently handled?

Check by Expert with years of experience, one familiar with every detail, will develop exact facts. Manipulations of any nature quickly uncovered. All transactions strictly confidential. Unusual references. Address No. 6161 care Manufacturers Record.

FOR SALE U. S. Patent No. 1,204,866 Pertaining to a Railway Device to take the place of spikes, constructed to prevent the rails from spreading and not work loose. The spike portion is driven in the side of the tie while an upper portion goes over the flange of the rail while a short portion is buried in the wood which locks against vertical movement while a portion at end of the device has a notch to pull the same. Write for copy of patent, make an offer. D. M. Haney, Box 443, Ybor City, Fla.

NEW YORK ADDRESS: Have a down town Broadway address. Excellent service, Handsome offices. \$5.00 per month. New York Business Address Bureau, 173 Broadway, New York.

COLLECTIONS

"Send your past due accounts to us for collection. Commission basis. Correspondents everywhere. Herbert Co., Rand-McNally Building, Chicago, Ill.

FINANCIAL

BONDS—Have buyers for manufacturing, mercantile, industrial, mining; entire issues. A. W. Johnson, 212 Mass. Bldg., Kansas City, Mo.

Valuable text books on the "Money Question". The most vital question affecting the welfare of the people.—"Daniel on Real Money". New edition being published. "High Cost of Living, Cause-Remedy." 75c. "The Betrayal of the People in the Federal Reserve Act." 25c. The Real Issue—Democracy vs. Plutocracy." 25c. No Plutocratic Peace But a Democratic Victor." 20c. The Monetary Educational Bureau, Kellogg Building, Washington, D. C.

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MILL STOCKS  
BANK STOCKS  
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25 years' experience in this Field.  
F. C. ABBOTT & CO.,  
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"INCORPORATE any enterprise under common law; any capital, transact business any state; no corporation taxes; no personal liability; keep control; very reasonable. Booklet free. Reinshagen, 2 Rand-McNally Building, Chicago, Ill."

WE WANT to make loan connection with first class Insurance or Trust Co. for Greenville, South Carolina and vicinity. Reference gladly furnished. Greenville Real Estate Loan & Ins. Co. W. B. ANTHONY, Sec'y. Treas.

INCREASE OF CAPITALIZATION.

SOUTH FLORIDA Nursery increasing its capitalization for expansion, desires the services of a reputable individual or firm of investment Bankers to undertake the financing of this increase. Address No. 6162 care Manufacturers Record, Baltimore.

INDUSTRIES WANTED

PITTSBURG, KANSAS, in the heart of Kansas coal fields offers reasonable assistance to industries that can stand investigation. Pittsburg population 23,000, county population 65,000, four steam railroads, one electric interurban, annual coal production (tons) 7,500,000, Natural gas, cheap electric power, excellent water and a good place to live. Address Chamber of Commerce.

SIX RAILROADS  
AND DEEP WATER TO SEA.

Suffolk, Virginia offers unusual opportunities for industrial plants. Shipping facilities unsurpassed. Cheap electric power. Water works. Labor plentiful. Population fifteen thousand and growing rapidly. Investigate before you locate. Write CHAMBER OF COMMERCE, SUFFOLK, VIRGINIA.

"INMAN, S. C., wants industries, large and small. Offer cheap power—healthful climate—good labor conditions. Address Inman Chamber of Commerce, Inman, S. C.

NORTH CAROLINA'S MOST MODERN  
LITTLE CITY,

AYDEN—Offers wonderful opportunities and is an ideal location for Cotton Yarn Mills, Knitting Mills, Hosiery Mills, or other manufacturing enterprises. Health conditions unexcelled; no labor unions. Come and look us over. Address Ayden Merchants Association, Ayden, N. C.

INDUSTRIAL PLANTS

FOR SALE

"D" Handle and Furniture factory. Building 70 by 100 ft. Two stories high, boiler room, dry kiln, and warehouse. 1500 Maury Street, Houston, Texas.

FOR SALE CHEAP—35 M. capacity, soft mud, brick plant. River bottom clay. Steam and open air driers. Labor conditions excellent. Thew steam shovel clay digger. New drier and machinery sheds. Machinery first-class condition. Plant in operation and paying. Good territory. Excellent demand. Satisfactory reason for selling. Address Box 583, Washington, Ga.

WILL SELL MY TWO PHOSPHATE PLANTS. One plant in operation. Cost of plants \$125,000. Equipped for mining hard and soft phosphate; 50 to 75 tons per day each; 125 miles from Jacksonville, located in the high grade hard rock phosphate belt. Analysis 76 to 82 B. P. L. I. and A. 2 to 3. Estimated over 300,000 tons of hard rock. One-half million tons of soft rock. Analysis, phosphoric acid, 24 to 32. Five hundred acres of land together with dwelling houses, phosphate bins and all other necessary buildings for laborers. One-quarter mile R. R. side track to each plant from A. C. L. R. R., main line. Will take fifty cents on the dollar for its actual value. \$50,000 cash will secure the property, balance of payments, reasonable terms, or royalty basis. For further information, if interested, write the owner, J. Frank Meredith, Dunnellon, Fla.

MODERN EXCELSIOR PLANT fully equipped. Ample wood supply. J. M. HARWELL, Pachuta, Miss.

SOAPSTONE QUARRY. Machinery and Timber For Sale. A complete plant, consisting of engine, boiler, three gang-saws, rubbing, grooving, planing machines, quarry machinery, undercutters, channelling and hoisting machines for quarrying and cutting soapstone. Also timber on 360 acres of ground. Location near Richmond, Virginia. For full particulars address HENRY M. SCHADEWALD, 3rd & Huntingdon, Philadelphia, Pa.

FACTORY SITES

FACTORY SITE

Suitable for Practically Any Line. Will sell as an inducement to increase Laurel's factories. Adjacent to our plant. Will sell sawmill refuse as fuel to cost in our opinion not more than \$2.00 ton coal. Wausau Southern Lumber Co. Laurel, Miss.

## PATENT ATTORNEYS

**PATENTS**—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 624 F St., Washington, D. C.

**PATENTS, TRADE-MARKS AND COPYRIGHTS**—Write for our Free Illustrated Guide Book and EVIDENCE OF CONCEPTION BLANK. Send model or sketch and description of your invention for our opinion of its patentable nature free. Highest references. Prompt service. Reasonable terms. Victor J. Evans & Co., 712 9th St., Washington, D. C.

**INVENTORS**—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chandlee, 412 7th St. N.W. Washington, D. C.

## PATENT SENSE

"The Book for Inventors and Manufacturers." FREE. WRITE LACEY & LACEY, Dept. 15, Washington, D. C. Est. 1869.

## AGENCIES WANTED

WANT TO REPRESENT a few manufacturers in Middle Georgia on a commission basis. Only want first-class products. F. R. Nalls, Manufacturers Agent, Macon, Ga.

## SITUATIONS WANTED

**MUNICIPAL ELECTRIC and WATER PLANT SUPERINTENDENT** wishes to change location. Familiar with every phase of the business, 25 years experience in Erection, Maintenance and management. Personal interview desired. Address No. 6160 care Manufacturers Record, Balto, Md.

**CONSTRUCTION ENGINEER or Manager** of Construction, 20 years experience in general construction including petroleum industry and refinery work. Have filled all positions from the field and actual handling of men to the executive end, also purchasing experience. Good organizer and very active. 42 years old. 12 years with one concern. Am willing to go anywhere in U. S. or foreign countries for right firm. Speak foreign languages. No. 6159 care Manufacturers Record, Baltimore, Md.

## MEN WANTED

Salaried positions \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional managing, financial, etc., all lines. If you are qualified, and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned, who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

## MEN WANTED

## EXECUTIVES

Qualified men—Technical, Commercial or Manufacturing—seeking new positions find our effective and confidential service extremely satisfactory. Our Mr. H. H. Harrison can negotiate a suitable connection for you as he has done for thousands of others since 1909. Inquiries invited; confidences respected. THE NATIONAL BUSINESS BOURSE, Inc. Confidential Negotiators Association Building, Chicago.

## MACHINERY AND SUPPLIES

FOR SALE: 22 Wolverine Pipeless and Syphon Type Hot Air Furnaces. Will sacrifice cheap for quick action. Will sell for cash or on terms. All Furnaces guaranteed new and in first-class condition. J. W. Hull Plumbing & Heating Co., 239 S. Bellevue Blvd., Memphis, Tenn.

## MACHINERY AND SUPPLIES WANTED

WANTED 250 H. P. Corliss Engine. Must be in good mechanical condition, and price cheap. Advise size, condition, number of years operated, make and lowest price. DAWSON COTTON OIL COMPANY, Dawson, Ga.

WANTED to buy second-hand Cableway with all attachments for digging sand, etc., 750 to 1000 feet distance, also double cylinders, drum hoist, Calcium Phosphate & Fertilizer Corp., Richmond, Va.



## SPECIAL ADVERTISEMENTS Of General Interest

### Factory and Warehouse Sites

AT

## ATLANTA

### For Sale or Lease

For Manufacturing or Warehouse Purposes Only  
ON

### Central of Georgia Railway

Extending from East Point to Inman, Georgia

Atlanta Rates	Regular Switching
Good Labor Supply	Service
Electric Power	Street Car Service
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"The Natural Advantages of the Atlanta Industrial District"

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### SOUTHERN TRAFFIC SERVICE, Inc.

Quotations  
Routings  
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Claims: {  
Reparation  
Overcharge  
Loss or Damage

Activities Confined to Traffic Which Originates in, or Terminates in, or Moves Between Points in, Southern Territory.

1001-2 Murchison National Bank Building  
WILMINGTON, N. C.

### WANTED—LOOK THIS OVER

Wanted, to hear from reliable parties that would be interested in a Train Controlling Device; one of the best ever invented. Will sell straight out or on a royalty basis. Full information on request; none but reliable parties need apply.

R. R. CHILDS

705 Payne Building

Roanoke, Va.

### FOR SALE

Fully Equipped, Good Going

### Gray Iron Foundry

With

### Machine Shop

favorably located in Pennsylvania, within 150 miles of New York City, 100 miles from Philadelphia. Good labor conditions. Excellent transportation facilities. Orders booked ahead for four months. The entire plant is in excellent running condition, many additions and alterations having been completed within the last two years. For complete information, apply to

B. G. D. TER BRAAKE

80 Wall Street

NEW YORK, N. Y.

Room 618

# Why Sells Bearings? (for line jack and counter shafts)

For one reason, they have a steel sleeve of high carbon steel which fits over the shaft covering the places worn by the previous bearing.

## **This sleeve stops all future wear on the shaft**

Another reason is that they have been adopted by concerns who can afford the cost of testing all bearings. A few of these are:

Millers Milling Company

Aunt Jemima Mills Company

French, Shriner & Urner

United Shoe Machinery Co.

Gillette Safety Razor Co.

American Agricultural Chemical Company. (25 plants.)

Babcock & Wilcox Mfg. Company

Borden Condensed Milk Co.

Dodge Brothers.

American Car & Foundry Co.

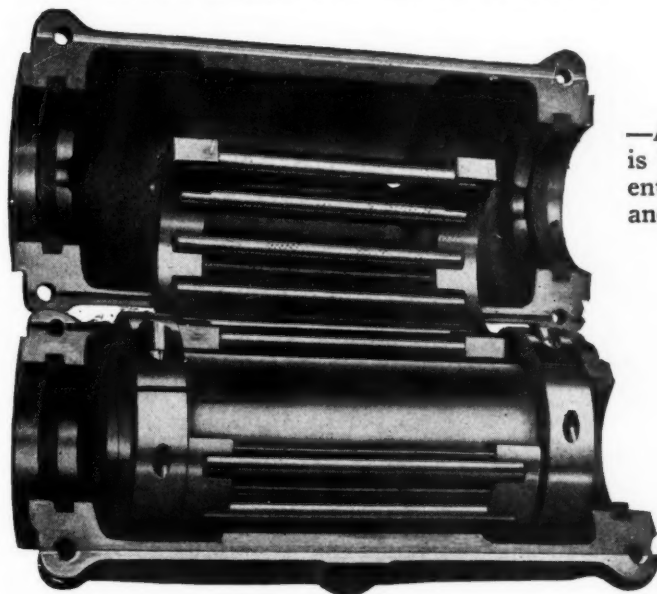
Our Engineering Department is here for the purpose of helping you in your individual problem. Use the services as much, as little, or as often as you please.

## **ROYERSFORD FOUNDRY & MACHINE COMPANY**

55 North 5th Street

Philadelphia, Pa.

*For dealer nearest you, see MacRae's Blue Book*



—And still a third reason is that they fit your present hangers, post hangers and pillow blocks.

# SELLS *Roller Bearings*

*And see that you get the Sells; it's marked. The bearing that is past any experimentation.*



## You can't talk a fire to death

"... Your very coat-tails are on fire and you don't know it," cried the Insurance Company President toward the close of his address before the annual Fire Prevention Day luncheon of the Chamber of Commerce. "Any minute fire may start and ruin an individual business here or perhaps spread and burn up half your city. Judge the danger yourselves when I tell you that the insurance companies are forced to collect over \$1,000,000 a year from you in fire insurance premiums. Most of this annual tax comes from merchants and manufacturers. It is therefore peculiarly the province of this commercial body to devise some way to reduce this drain on their business profits."

(Applause)

**Toastmaster:** "The Chamber has been edified to hear so clear an exposition of our fire problem. I have no doubt that your remarks will be earnestly considered by our Fire Prevention Committee and the suggestions you make taken under advisement."

**Fire Chief:** "Mr. Toastmaster, I'm not much of a speaker but I have been a good listener at these Fire Prevention Day Talk Fests for the past 10 years. I've heard orations; seen committees appointed; listened to resolutions; heard matters taken under advisement and read petitions and memorials recommending more and more fire prevention activity."

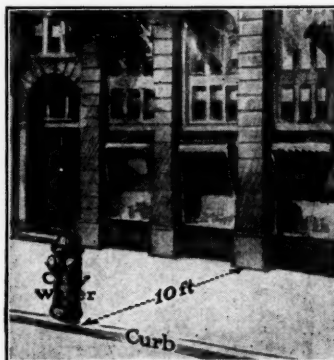
"But you can't talk a fire to death. You can't put it out by resolution. It pays no attention to the eminent citizens on any committee. It refuses to be taken under advisement. And it burns up your petitions while their ink is still wet."

"In all the years that this talk and fuss have been going on, one man, and one man only, has come forward with a *real idea*. He wanted to have automatic sprinklers installed throughout the crowded mercantile

*If you want to see what they did when they quit talking, read the report of Monday's meeting, in the May 17th issue of this publication*

section of the city. Any fire chief will tell you that's the way to cut fire losses to the bone and any insurance man will tell you that's the way to put insurance rates on rock bottom!

"You all know the time and energy spent by that man in trying to make a reality of his idea of a completely sprinklered city. You remember how he finally reported that



Safety brought to the curb—but stopped

various differences between landlords and tenants, particularly as to which should profit most from the resultant insurance reductions, demonstrated conclusively that voluntary cooperation is not to be expected from selfish human beings."

**Voice from the rear:** "With all due respect to our able Chief, has he any practical proposal which will make our landlords and merchants angels; any plan which will put these sprinkler improvements and economies into the section where we now waste insurance premiums at the rate of a million dollars a year? Does he think or expect our landlords to rebuild with concrete and our

merchants to handle nothing but non-burnable material?"

**Fire Chief:** (holding up pamphlet) "So that the sarcastic inquisitor may get back to his fire-trap as quickly as possible, I will be brief."

(Laughter)

"This booklet tells how to make even tinder box buildings and the most inflammable contents unburnable. It tells how to cut insurance rates 50 to 90%. It was prepared by *Fire and Water Engineering*—the leading journal of the Fire Chiefs of America. In it there is a suggested ordinance which provides for the sprinklering by the city of all dangerous buildings and the pro-rating of the cost equitably among those property owners benefited. Such pro-rated cost will be levied as a special fire protection tax and will be paid in six annual installments, so that the insurance savings may help meet such taxes and in most cases pay them altogether. It simply substitutes a fire saving tax for the present fire waste tax!

"*There's a simple plan.* A plan that cuts insurance rates. A plan that continues the city's water 10 feet from the curb into the buildings so that every fire will be put out automatically when it starts."

**Voice from the rear:** "Mr. Toastmaster, I apologize to our able Fire Chief. That idea is a practical business man's idea and every real business man will know it. I move we call a special meeting for Monday night, get this ordinance before the City Council and see that it becomes law. As the Chief says, 'Let's quit talking and do something!'"

\* \* \* \* \*

AND they did!

If you want a copy of an ordinance similar to the one here discussed, send to Grinnell Company, Inc. Address 292 W. Exchange Street, Providence, R. I. This ordinance was drafted by *Fire and Water Engineering* and reprinted from that magazine.

## GRINNELL COMPANY

Automatic Sprinkler  
Systems

Steam & Hot Water  
Heating Equipment

Humidifying and  
Drying Equipment

Fittings, Hangers  
and Valves

Pipe Bending,  
Welding, etc.

Power and  
Process Piping

*When the fire starts, the water starts*

